STIC Search Report
EIC 1700

STIC Database Tracking Number: 170002

TO: Kriellion Sanders Location: REM 10D11 Art Unit : 1714 November 3, 2005 Case Serial Number: 10/690120	From: Les Henderson Location: EIC 1700 REM 4B28 / 4A30 Phone: 571-272-2538 Leslie.henderson@uspto.gov

Search Notes

```
=> d his ful

     (FILE 'HOME' ENTERED AT 08:31:24 ON 03 NOV 2005)

     FILE 'HCAPLUS' ENTERED AT 08:31:33 ON 03 NOV 2005
                E US200040087446/PN
                E US20040087446/PN
L1            1 SEA ABB=ON  PLU=ON  US20040087446/PN
                D ALL
                SEL L1 RN

     FILE 'REGISTRY' ENTERED AT 08:32:37 ON 03 NOV 2005
L2           30 SEA ABB=ON  PLU=ON  (104564-32-1/BI OR 106917-30-0/BI
                OR 122586-52-1/BI OR 122586-95-2/BI OR 124172-53-8/BI
                OR 147783-69-5/BI OR 152734-34-4/BI OR 164578-16-9/BI
                OR 164648-93-5/BI OR 1753-47-5/BI OR 1843-05-6/BI OR
                219991-91-0/BI OR 24937-78-8/BI OR 297748-93-7/BI OR
                36768-62-4/BI OR 3864-99-1/BI OR 40075-75-0/BI OR
                41556-26-7/BI OR 474043-37-3/BI OR 52829-07-9/BI OR
                565450-39-7/BI OR 62782-03-0/BI OR 63843-89-0/BI OR
                64022-57-7/BI OR 64022-61-3/BI OR 64337-97-9/BI OR
                71029-16-8/BI OR 79720-19-7/BI OR 82537-67-5/BI OR
                9002-88-4/BI)
                D SCAN
                E 152734-34-4/RN
L3            1 SEA ABB=ON  PLU=ON  152734-34-4/RN
                D SCAN
                E 1753-47-5/RN
L4            1 SEA ABB=ON  PLU=ON  1753-47-5/RN
                D SCAN
L5            1 SEA ABB=ON  PLU=ON  1753-47-5/CRN
                D SCAN
                D IDE

     FILE 'LREGISTRY' ENTERED AT 08:52:19 ON 03 NOV 2005
L6              STR
L7              STR

     FILE 'REGISTRY' ENTERED AT 08:59:34 ON 03 NOV 2005
L8           26 SEA SSS SAM L6 AND L7
                D SCAN

     FILE 'LREGISTRY' ENTERED AT 09:28:02 ON 03 NOV 2005
L9              STR L6
L10             STR L7
L11             STR L10
L12             STR L11

     FILE 'REGISTRY' ENTERED AT 09:31:45 ON 03 NOV 2005
                D QUE STAT L9
                D QUE STAT L10
L13          50 SEA SSS SAM L9
                D QUE STAT
L14          50 SEA SSS SAM L10
L15          50 SEA SSS SAM L11
L16          50 SEA SSS SAM L12
                D QUE STAT L10

     FILE 'LREGISTRY' ENTERED AT 09:34:53 ON 03 NOV 2005

     FILE 'REGISTRY' ENTERED AT 09:39:43 ON 03 NOV 2005
                D QUE STAT L13
```

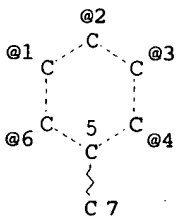
```
L17             SCR 1838 AND 1992
L18          50 SEA SSS SAM L17 AND L9
L19             SCR 1838 AND 1992 AND 1104
L20          50 SEA SSS SAM L9 AND L19
L21          50 SEA SSS SAM L10 AND L9

     FILE 'LREGISTRY' ENTERED AT 09:56:37 ON 03 NOV 2005
L22             STR L9

     FILE 'REGISTRY' ENTERED AT 09:57:00 ON 03 NOV 2005
L23          50 SEA SSS SAM L22 AND L19
                D QUE STAT
L24      139224 SEA SSS FUL L22 AND L19
                SAV TEMP SAN120/A L24
L25      320563 SEA SSS FUL L10
                SAV TEMP L25 SAN120A/A
                D SAV
L26        2282 SEA ABB=ON  PLU=ON  L24 AND L25

     FILE 'LREGISTRY' ENTERED AT 10:07:16 ON 03 NOV 2005
                D QUE STAT L4
L27             STR 152734-34-4
L28             STR 1753-47-5

     FILE 'REGISTRY' ENTERED AT 10:17:54 ON 03 NOV 2005
L29           0 SEA SUB=L25 SSS SAM L27
                D QUE STAT
L30           7 SEA SUB=L25 SSS SAM L28
                D QUE STAT
                D SCAN

     FILE 'LREGISTRY' ENTERED AT 10:32:08 ON 03 NOV 2005
L31             STR L27
L32             STR L28

     FILE 'REGISTRY' ENTERED AT 10:40:22 ON 03 NOV 2005
L33           0 SEA SUB=L25 SSS SAM L31
                D QUE STAT
L34          50 SEA SUB=L25 SSS SAM L32
                D QUE STAT

     FILE 'LREGISTRY' ENTERED AT 10:42:56 ON 03 NOV 2005
L35             STR L31
L36             STR L28

     FILE 'REGISTRY' ENTERED AT 10:45:10 ON 03 NOV 2005
L37           0 SEA SUB=L25 SSS SAM L35
                D QUE STAT
L38          19 SEA SUB=L25 SSS SAM L36
                D QUE STAT
                D QUE STAT L37
L39           8 SEA SUB=L25 SSS FUL L35
                D SCAN
                D QUE STAT L38
L40         210 SEA SUB=L25 SSS FUL L36
                D QUE STAT L34
L41        1234 SEA SUB=L25 SSS FUL L32
                SAV L39 SAN120B/A
                SAV L40 SAN120C/A
                SAV L41 SAN120D/A

     FILE 'HCAPLUS' ENTERED AT 11:33:44 ON 03 NOV 2005
```

```
L42       29829 SEA ABB=ON  PLU=ON  L24

      FILE 'REGISTRY' ENTERED AT 11:37:57 ON 03 NOV 2005
L43      320563 SEA ABB=ON  PLU=ON  L25 OR L25
               D 160000 RN
L44      160000 SEA RAN=(196803-56-2,) ABB=ON  PLU=ON  L25 OR L25
L45      160563 SEA ABB=ON  PLU=ON  L43 NOT L44

      FILE 'HCAPLUS' ENTERED AT 11:45:14 ON 03 NOV 2005
L46       13768 SEA ABB=ON  PLU=ON  L44
L47      242559 SEA ABB=ON  PLU=ON  L45
L48        1549 SEA ABB=ON  PLU=ON  L42 AND (L46 OR L47)
               D L48 1-10 FHITSTR
L49         410 SEA ABB=ON  PLU=ON  L26
               D 1-10 FHITSTR
L50           3 SEA ABB=ON  PLU=ON  L39
               D SCAN
L51         140 SEA ABB=ON  PLU=ON  L40
L52         214 SEA ABB=ON  PLU=ON  L41
L53          74 SEA ABB=ON  PLU=ON  L52 NOT L51
               D 1-5 FHITSTR
L54         725 SEA ABB=ON  PLU=ON  STERIC?(3A)HINDER?(3A)AMINE
L55           0 SEA ABB=ON  PLU=ON  L54 AND L51
L56           0 SEA ABB=ON  PLU=ON  L54 AND L52
L57           2 SEA ABB=ON  PLU=ON  L54 AND L48
               D SCAN
L58           1 SEA ABB=ON  PLU=ON  L54 AND L49
               D SCAN
L59           2 SEA ABB=ON  PLU=ON  L57 OR L58
L60        7614 SEA ABB=ON  PLU=ON  STERIC?(3A)HINDER?
L61         755 SEA ABB=ON  PLU=ON  L60(4A)AMINE
L62        1387 SEA ABB=ON  PLU=ON  L60 AND AMINE
L63           0 SEA ABB=ON  PLU=ON  L61 AND L51
L64           0 SEA ABB=ON  PLU=ON  L61 AND L52
L65           2 SEA ABB=ON  PLU=ON  L61 AND L48
L66           1 SEA ABB=ON  PLU=ON  L61 AND L49
L67           2 SEA ABB=ON  PLU=ON  L59 OR L65 OR L66
L68           0 SEA ABB=ON  PLU=ON  L62 AND L51
L69           0 SEA ABB=ON  PLU=ON  L62 AND L52
L70           2 SEA ABB=ON  PLU=ON  L62 AND L48
L71           1 SEA ABB=ON  PLU=ON  L62 AND L49
L72           2 SEA ABB=ON  PLU=ON  L67 OR L70 OR L71
L73       74458 SEA ABB=ON  PLU=ON  (UV OR ULTRAVIOLET OR ULTRA(A)VIOLE
               T)(3A)ABSOR?
               D 1-5 KWIC
L74           6 SEA ABB=ON  PLU=ON  L73 AND L51
L75           7 SEA ABB=ON  PLU=ON  L73 AND L52
L76           7 SEA ABB=ON  PLU=ON  L73 AND L48
L77           2 SEA ABB=ON  PLU=ON  L73 AND L49
L78          14 SEA ABB=ON  PLU=ON  (L74 OR L75 OR L76 OR L77)
L79          15 SEA ABB=ON  PLU=ON  L78 OR L72
               D SCAN TI
               D QUE STAT L42
               D QUE STAT L46
               D QUE STAT L48
               D QUE STAT L50
               D QUE STAT L79
               D QUE STAT L52
L80           8 SEA ABB=ON  PLU=ON  L54 AND L42
               D SCAN TI
L81           0 SEA ABB=ON  PLU=ON  L1 AND L80
L82           4 SEA ABB=ON  PLU=ON  (L46 OR L47) AND L54
```

```
                D SCAN TI
L83           41 SEA ABB=ON  PLU=ON  L60 AND L42
L84           59 SEA ABB=ON  PLU=ON  L60 AND (L46 OR L47)
L85            0 SEA ABB=ON  PLU=ON  L1 AND L83
L86            0 SEA ABB=ON  PLU=ON  L1 AND L84
L87            3 SEA ABB=ON  PLU=ON  L73 AND (L84 OR L85)
L88          166 SEA ABB=ON  PLU=ON  L73 AND L42
L89         1853 SEA ABB=ON  PLU=ON  L73 AND (L46 OR L47)
L90            1 SEA ABB=ON  PLU=ON  L88 AND L54
L91            1 SEA ABB=ON  PLU=ON  L89 AND L54
L92            3 SEA ABB=ON  PLU=ON  L88 AND L60
L93            3 SEA ABB=ON  PLU=ON  L89 AND L60
L94           21 SEA ABB=ON  PLU=ON  L79 OR L82 OR L87 OR (L90 OR L91
                OR L92 OR L93)
L95         4728 SEA ABB=ON  PLU=ON  HINDER?(3A)AMINE
L96            2 SEA ABB=ON  PLU=ON  L95 AND L48
                D SCAN
L97            0 SEA ABB=ON  PLU=ON  L95 AND L50
L98            0 SEA ABB=ON  PLU=ON  L95 AND L51
L99            0 SEA ABB=ON  PLU=ON  L95 AND L52
L100          38 SEA ABB=ON  PLU=ON  L95 AND L42
L101           2 SEA ABB=ON  PLU=ON  L95 AND (L46 OR L48)
L102           2 SEA ABB=ON  PLU=ON  L100 AND L101
                D SCAN
L103        1689 SEA ABB=ON  PLU=ON  L48 OR L50 OR L51
L104           2 SEA ABB=ON  PLU=ON  L103 AND L54
L105           2 SEA ABB=ON  PLU=ON  L103 AND L62
L106           2 SEA ABB=ON  PLU=ON  L103 AND L60
L107          13 SEA ABB=ON  PLU=ON  L103 AND L73
L108           2 SEA ABB=ON  PLU=ON  L103 AND L95
L109           1 SEA ABB=ON  PLU=ON  L103 AND L95 AND L73
L110          14 SEA ABB=ON  PLU=ON  (L104 OR L105 OR L106 OR L107 OR
                L108 OR L109)
L111           7 SEA ABB=ON  PLU=ON  L94 NOT L110
                D L111 1-7 HITSTR
L112           0 SEA ABB=ON  PLU=ON  L52 AND (L54 OR L61 OR L62 OR L95)

L113           7 SEA ABB=ON  PLU=ON  L52 AND L73
                D SCAN TI
L114          21 SEA ABB=ON  PLU=ON  (L104 OR L105 OR L106 OR L107 OR
                L108 OR L109 OR L110 OR L111 OR L112 OR L113)
L115           0 SEA ABB=ON  PLU=ON  L1 AND L114
L116           1 SEA ABB=ON  PLU=ON  L1 AND L50
L117           1 SEA ABB=ON  PLU=ON  L1 AND L51
L118           1 SEA ABB=ON  PLU=ON  L1 AND L52
L119           0 SEA ABB=ON  PLU=ON  L1 AND L48
L120        5824 SEA ABB=ON  PLU=ON  L24(L)RACT/RL
L121        5166 SEA ABB=ON  PLU=ON  L44(L)RACT/RL
L122       30833 SEA ABB=ON  PLU=ON  L45(L)RACT/RL
L123         206 SEA ABB=ON  PLU=ON  L120 AND (L121 OR L122)
                D 1 HITSTR
L124        5419 SEA ABB=ON  PLU=ON  (STERIC? OR HINDER?)(3A)AMINE
L125           0 SEA ABB=ON  PLU=ON  L124 AND L123
L126        9406 SEA ABB=ON  PLU=ON  (STERIC? OR HINDER?)(L)AMINE
L127           0 SEA ABB=ON  PLU=ON  L123 AND L126
L128           2 SEA ABB=ON  PLU=ON  L48 AND L124

     FILE 'REGISTRY' ENTERED AT 14:03:16 ON 03 NOV 2005
                D QUE STAT L6
                D QUE STAT L24
                D QUE STAT L7
L129          50 SEA SUB=L24 SSS SAM L6
```

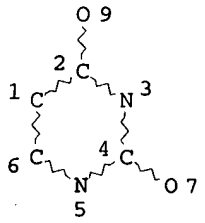
```
L130      39271 SEA SUB=L24 SSS FUL L6
                D SAV
                SAV L130 SAV120E/A

     FILE 'HCAPLUS' ENTERED AT 14:06:59 ON 03 NOV 2005
L131       1905 SEA ABB=ON  PLU=ON  L130(L)RACT/RL
L132         94 SEA ABB=ON  PLU=ON  L131 AND (L121 OR L122)

     FILE 'REGISTRY' ENTERED AT 14:08:32 ON 03 NOV 2005
                D QUE STAT L7
                D QUE STAT L24
                D QUE STAT L25
                D QUE STAT L25
L133         50 SEA SUB=L25 SSS SAM L7
L134      50778 SEA SUB=L25 SSS FUL L7
                SAV L134 SAV120F/A

     FILE 'HCAPLUS' ENTERED AT 14:11:39 ON 03 NOV 2005
L135       2884 SEA ABB=ON  PLU=ON  L134(L)RACT/RL
L136         17 SEA ABB=ON  PLU=ON  L131 AND L135
                D SCAN
                D SCAN TI
L137         77 SEA ABB=ON  PLU=ON  L132 NOT L136
L138          0 SEA ABB=ON  PLU=ON  L137 AND L126
L139          0 SEA ABB=ON  PLU=ON  L137 AND L73
                D QUE STAT
L140      10621 SEA ABB=ON  PLU=ON  (FILM? OR COVER?)(3A)(GREENHOUS?
                OR GREEN(A)HOUS? OR TUNNEL? OR NET# OR NETTING? OR
                SCREEN? OR MESH? OR MULCH?)
L141          0 SEA ABB=ON  PLU=ON  L140 AND L137
L142          1 SEA ABB=ON  PLU=ON  L140 AND L52
                D SCAN
L143          7 SEA ABB=ON  PLU=ON  L52 AND (FIBER? OR FIBR? OR
                FILAMENT? OR THREAD? OR STRAND? OR RIBBON? OR FILIFORM?
                )
                D SCAN TI
L144       9217 SEA ABB=ON  PLU=ON  (FIBER? OR FIBR? OR FILAMENT? OR
                THREAD? OR STRAND? OR RIBBON? OR FILIFORM?)(5A)(GREENHO
                US? OR GREEN(A)HOUS? OR TUNNEL? OR NET# OR NETTING? OR
                SCREEN? OR MESH? OR MULCH?)
L145          0 SEA ABB=ON  PLU=ON  L144 AND L52
L146          0 SEA ABB=ON  PLU=ON  L144 AND L137
L147          0 SEA ABB=ON  PLU=ON  L144 AND L132
L148          0 SEA ABB=ON  PLU=ON  L144 AND L135
L149          3 SEA ABB=ON  PLU=ON  L137 AND (FIBER? OR FIBR? OR
                FILAMENT? OR THREAD? OR STRAND? OR RIBBON? OR FILIFORM?
                )
L150          8 SEA ABB=ON  PLU=ON  L132 AND (FIBER? OR FIBR? OR
                FILAMENT? OR THREAD? OR STRAND? OR RIBBON? OR FILIFORM?
                )
L151          5 SEA ABB=ON  PLU=ON  L136 AND (FIBER? OR FIBR? OR
                FILAMENT? OR THREAD? OR STRAND? OR RIBBON? OR FILIFORM?
                )
L152          5 SEA ABB=ON  PLU=ON  L136 AND L151
L153         88 SEA ABB=ON  PLU=ON  L48 AND CONDENS?
L154         11 SEA ABB=ON  PLU=ON  L132 AND CONDENS?
L155         61 SEA ABB=ON  PLU=ON  L114 OR L128 OR L136 OR L142 OR
                L143 OR (L149 OR L150 OR L151 OR L152) OR L154 OR L50
L156         55 SEA ABB=ON  PLU=ON  L155 AND ((L48 OR L49 OR L50 OR
                L51 OR L52) OR L132 OR L136)
L157          6 SEA ABB=ON  PLU=ON  L155 NOT L156
                D SCAN TI
```

```
                D SCAN
L158         55 SEA ABB=ON  PLU=ON  L155 AND ((L48 OR L49 OR L50 OR
                L51 OR L52) OR L136)
L159         52 SEA ABB=ON  PLU=ON  L158 NOT L50
L160         35 SEA ABB=ON  PLU=ON  L159 NOT L136
                D SCAN L160 TI
L161          2 SEA ABB=ON  PLU=ON  L3
L162         57 SEA ABB=ON  PLU=ON  L4
                D QUE STAT
L163         58 SEA ABB=ON  PLU=ON  L161 OR L162
L164          6 SEA ABB=ON  PLU=ON  L158 AND L163
L165          6 SEA ABB=ON  PLU=ON  L155 AND L163
L166        106 SEA ABB=ON  PLU=ON  L159 OR L163
L167        104 SEA ABB=ON  PLU=ON  L166 NOT L50
L168         87 SEA ABB=ON  PLU=ON  L167 NOT L136
L169         56 SEA ABB=ON  PLU=ON  L168 AND L163
L170         31 SEA ABB=ON  PLU=ON  L168 NOT L169
L171         62 SEA ABB=ON  PLU=ON  L51 AND L168
L172          6 SEA ABB=ON  PLU=ON  L171 NOT L163
L173         56 SEA ABB=ON  PLU=ON  L171 NOT L172
L174        107 S L166 OR L50 OR L136 OR L154 OR L163
L175          3 S L174 AND L50
L176        104 S L174 NOT L175
L177         11 S L154 AND L176
L178         93 S L176 NOT L177
L179         16 S L136 AND L178
L180         77 S L178 NOT L179
L181         56 S L180 AND L163
L182         21 S L180 NOT L181


=> => d que stat l24
L19             SCR 1838 AND 1992 AND 1104
L22             STR
```

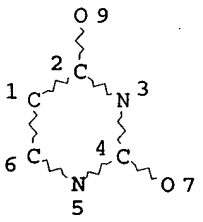



```
                N @9

VPA 9-4/3/2/1/6 U
NODE ATTRIBUTES:
NSPEC   IS RC     AT   7
NSPEC   IS RC     AT   9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
L24      139224 SEA FILE=REGISTRY SSS FUL L22 AND L19

100.0% PROCESSED  980882 ITERATIONS                    139224 ANSWERS
SEARCH TIME: 00.00.05
```

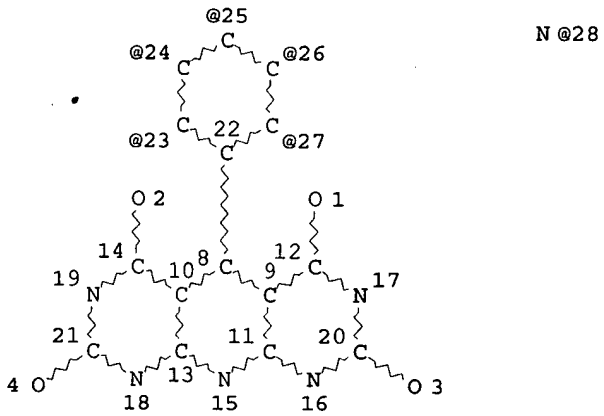
```
=> d que stat l25
L10             STR
```




```
NODE ATTRIBUTES:
CONNECT IS E1  RC AT   7
CONNECT IS E1  RC AT   9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
L25      320563 SEA FILE=REGISTRY SSS FUL L10

100.0% PROCESSED   345428 ITERATIONS   (     1 INCOMPLETE)   320563 ANSWE
RS
SEARCH TIME: 00.00.04


=> d que stat l39
L10             STR
```




```
NODE ATTRIBUTES:
CONNECT IS E1  RC AT   7
CONNECT IS E1  RC AT   9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
L25      320563 SEA FILE=REGISTRY SSS FUL L10
L35             STR
```



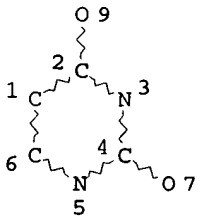
VPA 28-23/24/25/26/27 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 25

STEREO ATTRIBUTES: NONE
L39 8 SEA FILE=REGISTRY SUB=L25 SSS FUL L35

100.0% PROCESSED 179 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

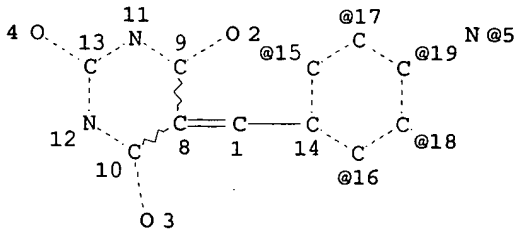
=> d que stat l40
L10 STR



NODE ATTRIBUTES:
CONNECT IS E1 RC AT 7
CONNECT IS E1 RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
L25 320563 SEA FILE=REGISTRY SSS FUL L10
L36 STR



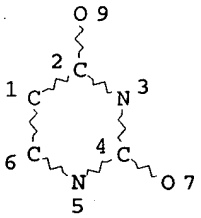
VPA 5-15/16/17/18/19 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
L40 210 SEA FILE=REGISTRY SUB=L25 SSS FUL L36

100.0% PROCESSED 3736 ITERATIONS 210 ANSWERS
SEARCH TIME: 00.00.01

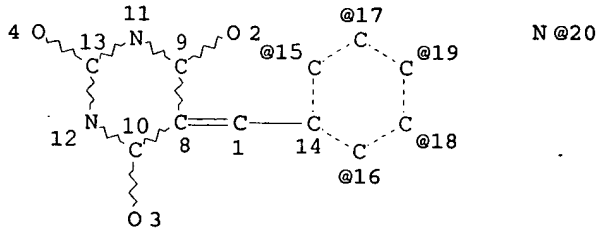
=> d que stat l41
L10 STR



NODE ATTRIBUTES:
CONNECT IS E1 RC AT 7
CONNECT IS E1 RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
L25 320563 SEA FILE=REGISTRY SSS FUL L10
L32 STR



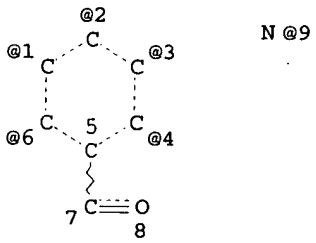
VPA 20-16/18/19/17/15 U
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 17

STEREO ATTRIBUTES: NONE
L41 1234 SEA FILE=REGISTRY SUB=L25 SSS FUL L32

100.0% PROCESSED 26275 ITERATIONS 1234 ANSWERS
SEARCH TIME: 00.00.02

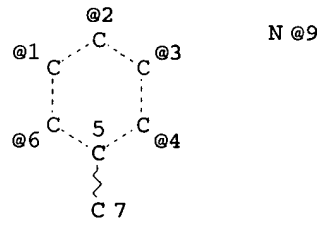
=> d que stat l130
L6 STR



VPA 9-4/3/2/1/6 U
NODE ATTRIBUTES:
CONNECT IS E1 RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L19 SCR 1838 AND 1992 AND 1104
L22 STR



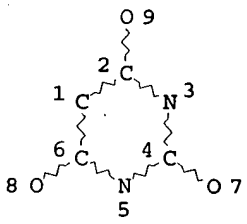
VPA 9-4/3/2/1/6 U
NODE ATTRIBUTES:
NSPEC IS RC AT 7
NSPEC IS RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
L24 139224 SEA FILE=REGISTRY SSS FUL L22 AND L19
L130 39271 SEA FILE=REGISTRY SUB=L24 SSS FUL L6

100.0% PROCESSED 84820 ITERATIONS 39271 ANSWERS
SEARCH TIME: 00.00.01

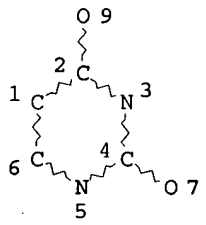
=> d que stat l134
L7 STR



NODE ATTRIBUTES:
CONNECT IS E1 RC AT 7
CONNECT IS E1 RC AT 8
CONNECT IS E1 RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 9

STEREO ATTRIBUTES: NONE
L10 STR



NODE ATTRIBUTES:
CONNECT IS E1 RC AT 7
CONNECT IS E1 RC AT 9
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 8

STEREO ATTRIBUTES: NONE
L25 320563 SEA FILE=REGISTRY SSS FUL L10
L134 50778 SEA FILE=REGISTRY SUB=L25 SSS FUL L7

100.0% PROCESSED 54439 ITERATIONS 50778 ANSWERS
SEARCH TIME: 00.00.02

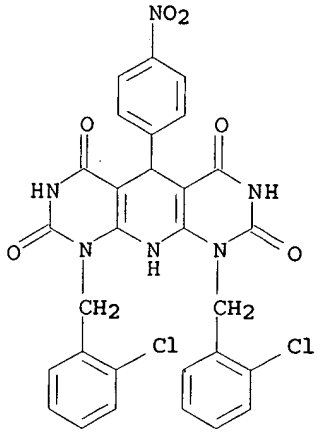
=> d l175 1-3 cbib abs hitstr hitind

L175 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:607981 Document No. 142:114001 6-Aminouracils as precursors for the syntheses of fused di- and tricyclic pyrimidines. Youssif, Shaker (Chemistry Department, Faculty of Science, Zagazig University, Zagazig, Egypt). Journal of Chemical Research (5), 341-343 (English) 2004. CODEN: JCROA4. OTHER SOURCES: CASREACT 142:114001. Publisher: Science Reviews.
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT
*

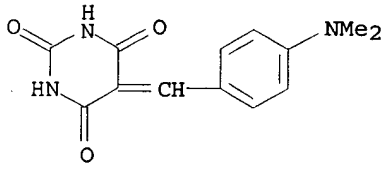
AB Treatment of uracils I (R = benzyl, Me) with nucleophilic primary amines, followed by nitrosation, reduction, formylation and dehydrocyclization, led to xanthines II (R = benzyl, Y = H; R = Me, Y = Ph). Reaction of uracil III with aromatic aldehydes gave dipyrimidopyridines IV (R1 = H, Cl, OH, NO2, OMe, R2 = H; R1 = OMe, R2 = OH); reaction of III with formalin and primary amines gave pyrimidopyrimidines V [R3 = (un)substituted Ph, cyclohexyl] via double Michael reactions.
IT **823221-54-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(fused pyrimidines via heterocyclization reactions of 6-aminouracils with amines and aldehydes)
RN 823221-54-1 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone,

1,9-bis[(2-chlorophenyl)methyl]-5,10-dihydro-5-(4-nitrophenyl)-
(9CI) (CA INDEX NAME)

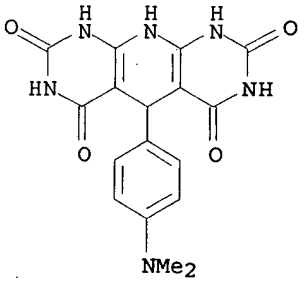


CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
IT 445482-00-8P 823221-49-4P 823221-51-8P 823221-52-9P
823221-53-0P **823221-54-1P** 823221-55-2P 823221-56-3P
823221-57-4P 823221-58-5P 823221-59-6P 823221-60-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(fused pyrimidines via heterocyclization reactions of
6-aminouracils with amines and aldehydes)

L175 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:348022 Document No. 140:358239 Composition and process for enhancing biomass production in greenhouses. Destro, Mara; Bonora, Michela; Magnani, Galileo (Ciba Specialty Chemicals Holding Inc., Switz.; Ciba Specialty Chemicals S.P.A.). Eur. Pat. Appl. EP 1413599 A1 20040428, 59 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2003-405736 20031014. PRIORITY: EP 2002-405904 20021022.
AB A thermoplastic polymer composition is useful in greenhouse films to enhance plant growth or in general bio-mass production A photoactive additive together with light stabilizers is added into the greenhouse film. The condensation product of dialkylamino benzaldehyde and barbituric acid together with light stabilizers act as a plant growth enhancing additive in polymeric greenhouse films.
IT **1753-47-5 152734-34-4**
RL: MOA (Modifier or additive use); USES (Uses)
(additive package of photoactive composition and light stabilizers for enhancing biomass production in greenhouses)
RN 1753-47-5 HCAPLUS
CN 2,4,6(1H,3H,5H)-Pyrimidinetrione, 5-[[4-(dimethylamino)phenyl]methylene]- (9CI) (CA INDEX NAME)



RN 152734-34-4 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5-[4-(dimethylamino)phenyl]-5,10-dihydro- (9CI) (CA INDEX NAME)

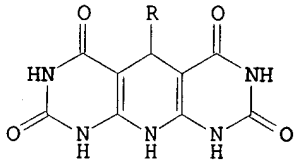


IC ICM C08K005-3462
ICS C08K005-3465; C08J005-18
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 38
IT **1753-47-5** 1843-05-6, Chimassorb 81 3864-99-1, Tinuvin 327 36768-62-4, 2,2,6,6-Tetramethyl-4-aminopiperidine 40075-75-0, 3-Octyl-7,7,9,9-tetramethyl-1,3,8-triazaspiro[4.5]decane-2,4-dione 41556-26-7, Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate 52829-07-9, Bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate 62782-03-0, Bis(2,2,6,6-tetramethyl-4-piperidyl)succinate 63843-89-0, Bis(1,2,2,6,6-pentamethyl-4-piperidyl)butyl-3,5-di-tert-butyl-4-hydroxybenzylmalonate 64022-57-7 64022-61-3, Tetrakis(2,2,6,6-tetramethyl-4-piperidyl)-1,2,3,4-butane tetracarboxylate 64337-97-9, 2-Undecyl-7,7,9,9-tetramethyl-1-oxa-3,8-diaza-4-oxospiro[4.5]decane 71029-16-8, 1,1-(1,2-Ethanediyl)-bis(3,3,5,5-tetramethylpiperazinone) 79720-19-7, 3-Dodecyl-1-(2,2,6,6-tetramethyl-4-piperidyl)pyrrolidine-2,5-dione 82537-67-5, 8-Acetyl-3-dodecyl-7,7,9,9-tetramethyl-1,3,8-triazaspiro[4.5]decane-2,4-dione 104564-32-1, 4-Stearyloxy-2,2,6,6-tetramethylpiperidine 106917-30-0, 3-Dodecyl-1-(1,2,2,6,6-pentamethyl-4-piperidyl)pyrrolidine-2,5-dione 122586-52-1, Bis(1-octyloxy-2,2,6,6-tetramethyl-4-piperidyl)sebacate 122586-95-2, Bis(1-octyloxy-2,2,6,6-tetramethylpiperidyl)succinate 124172-53-8 147783-69-5, 1,1-Bis(1,2,2,6,6-pentamethyl-4-piperidyloxycarbonyl)-2-(4-methoxyphenyl)ethene **152734-34-4** 164648-93-5 219991-91-0, 4-Benzoyl-2,2,6,6-tetramethylpiperidine 297748-93-7 474043-37-3 565450-39-7, Tinuvin NOR 371
RL: MOA (Modifier or additive use); USES (Uses)
(additive package of photoactive composition and light stabilizers for enhancing biomass production in greenhouses)

L175 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2005 ACS on STN

1994:106924 Document No. 120:106924 Synthesis and antileishmanial activity of 5,10-dihydropyrido[2,3-d:6,5-d']dipyrimidine-5-(substituted phenyl)-2,4,6,8-[1H,3H-7H,9H]-tetraones. Khajuria, R. K.; Sharma, S. R.; Jain, S. M.; Sharma, Shalini; Kapil, Aruna (Dep. Chem., Reg. Res. Lab., Jammu, 180 001, India). Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry, 32B(9), 981-3 (English) 1993. CODEN: IJSBDB. ISSN: 0376-4699.

GI



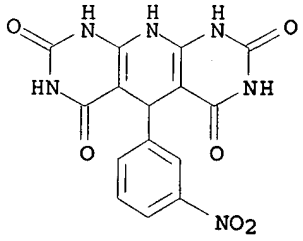
I

AB Title compds. I [R = 3-HOC6H4; 4-MeOC6H4; 4-Me2NC6H4; 2-, 3-, or 4-O2NC6H4; 3,5-MeO(I)C6H3; 2,3-, 2,4-, 2,5-, or 3,4-(HO)2C6H3; 3,4- or 3,6-HO(O2N)C6H3; 3,4- or 3,2-MeO(HO)C6H3; 3,4,5-MeO(HO)(O2N)C6H2; 3,4-methylenedioxyphenyl] were prepared by condensation of substituted benzaldehydes RCHO with barbituric acid in the presence of ammonium hydroxide in EtOH. The structures I were established by IR, 1H- and 13C-NMR, and mass spectral data. I were tested for antileishmanial activity.

IT **152734-21-9P 152734-22-0P 152734-23-1P 152734-24-2P 152734-30-0P 152734-31-1P 152734-34-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antileishmanial activity of)

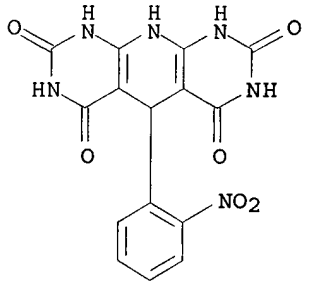
RN 152734-21-9 HCAPLUS

CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(3-nitrophenyl)- (9CI) (CA INDEX NAME)

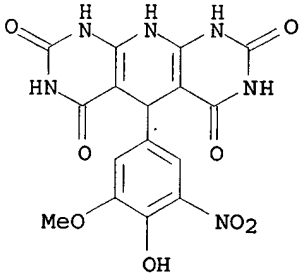


RN 152734-22-0 HCAPLUS

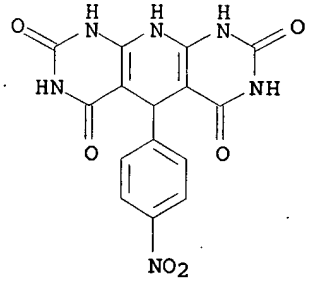
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(2-nitrophenyl)- (9CI) (CA INDEX NAME)



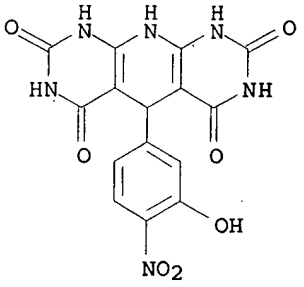
RN 152734-23-1 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(4-hydroxy-3-methoxy-5-nitrophenyl)- (9CI) (CA INDEX NAME)



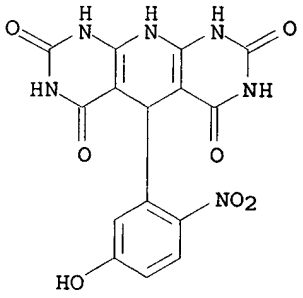
RN 152734-24-2 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(4-nitrophenyl)- (9CI) (CA INDEX NAME)



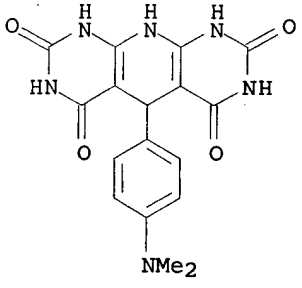
RN 152734-30-0 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(3-hydroxy-4-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 152734-31-1 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5,10-dihydro-5-(5-hydroxy-2-nitrophenyl)- (9CI) (CA INDEX NAME)



RN 152734-34-4 HCAPLUS
CN Pyrido[2,3-d:6,5-d']dipyrimidine-2,4,6,8(1H,3H,7H,9H)-tetrone, 5-[4-(dimethylamino)phenyl]-5,10-dihydro- (9CI) (CA INDEX NAME)

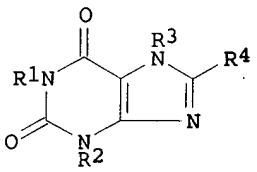


CC 28-16 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 10
IT **152734-21-9P 152734-22-0P 152734-23-1P**
152734-24-2P 152734-25-3P 152734-26-4P 152734-27-5P
152734-28-6P 152734-29-7P **152734-30-0P**
152734-31-1P 152734-32-2P 152734-33-3P
152734-34-4P 152734-35-5P 152734-36-6P 152734-37-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antileishmanial activity of)

=> d l177 1-11 cbib abs hitstr hitind

L177 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
2004:408271 Document No. 140:423521 Preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV). Himmelsbach, Frank; Langkopf, Elke; Eckhardt, Matthias; Maier, Roland; Mark, Michael; Tadayyon, Mohammad; Lotz, Ralf (Boehringer Ingelheim Pharma G.m.b.H. & Co. K.-G., Germany). Ger. Offen. DE 10251927 A1 20040519, 39 pp. (German). CODEN: GWXXBX. APPLICATION: DE 2002-10251927 20021108.

GI



I

AB Title compds. [I; R1 = (**condensed** heterocyclyl-substituted) C1-3 alkyl, etc.; R2 = H, alkyl, alkenyl, alkynyl, cycloalkyl, etc.; R3 = (substituted) alkyl, aryl, alkenyl, alkynyl, etc.; R4 = (substituted) azetidin-1-yl, pyrrolidin-1-yl, piperidin-1-yl, hexahydroazepin-1-yl, etc.] and tautomerics, stereoisomerics, mixts., prodrug, and salts thereof, were prepared Thus, 1-[(1-methyl-2,2-dioxo-1H-benzo[c][1,2]thiazin-4-yl)methyl]-3-methyl-7-(3-methyl-2-buten-1-yl)-8-[3-(tert-butyloxycarbonylamino)piperidin-1-yl]xanthine (preparation given) in CH2Cl2 was treated with isopropanolic HCl followed by stirring for 3 h at room temperature to give 77% 1-[(1-methyl-2,2-dioxo-1H-benzo[c][1,2]thiazin-4-yl)methyl]-3-methyl-7-(3-methyl-2-buten-1-yl)-8-(3-aminopiperidin-1-yl)xanthine. The latter inhibited DPP-IV with IC50 = 13 nM.

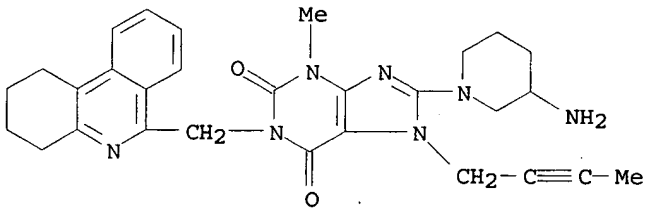
IT **668271-72-5P 690996-68-0P 690996-69-1P**
690996-70-4P 690996-71-5P 690996-72-6P
690996-73-7P 690996-74-8P 690996-75-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))

RN 668271-72-5 HCAPLUS

CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-7-(2-butynyl)-3,7-dihydro-3-methyl-1-[(1,2,3,4-tetrahydro-6-phenanthridinyl)methyl]-, trifluoroacetate (9CI) (CA INDEX NAME)

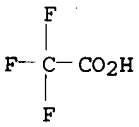
CM 1

CRN 668271-71-4
CMF C29 H33 N7 O2

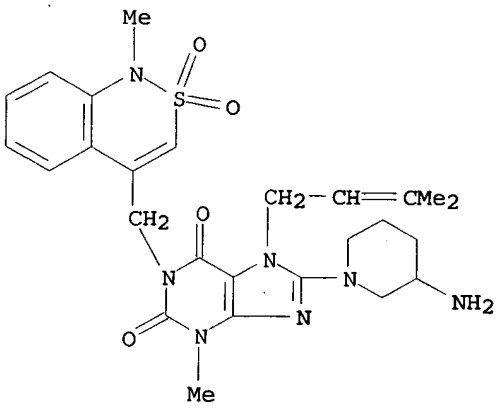


CM 2

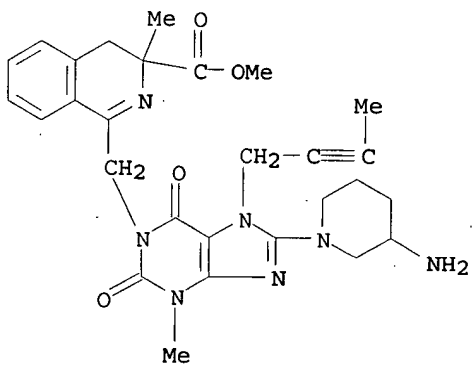
CRN 76-05-1
CMF C2 H F3 O2



RN 690996-68-0 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-3,7-dihydro-3-methyl-7-(3-methyl-2-butenyl)-1-[(1-methyl-2,2-dioxido-1H-2,1-benzothiazin-4-yl)methyl]- (9CI) (CA INDEX NAME)

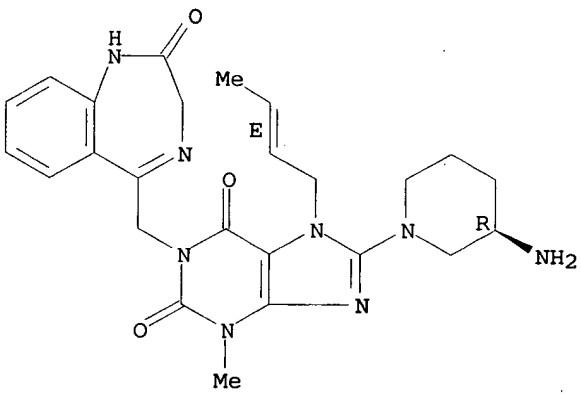


RN 690996-69-1 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 1-[[8-(3-amino-1-piperidinyl)-7-(2-butynyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-1-yl]methyl]-3,4-dihydro-3-methyl-, methyl ester (9CI) (CA INDEX NAME)

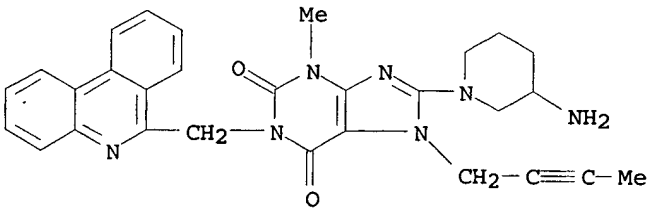


RN 690996-70-4 HCAPLUS
CN 1H-Purine-2,6-dione, 8-[(3R)-3-amino-1-piperidinyl]-7-(2E)-2-butenyl-1-[(2,3-dihydro-2-oxo-1H-1,4-benzodiazepin-5-yl)methyl]-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

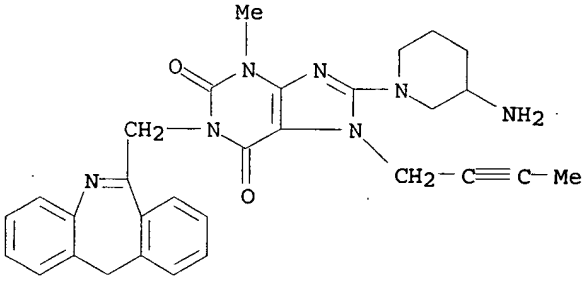


RN 690996-71-5 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-7-(2-butynyl)-3,7-dihydro-3-methyl-1-(6-phenanthridinylmethyl)-, hydrochloride (9CI) (CA INDEX NAME)

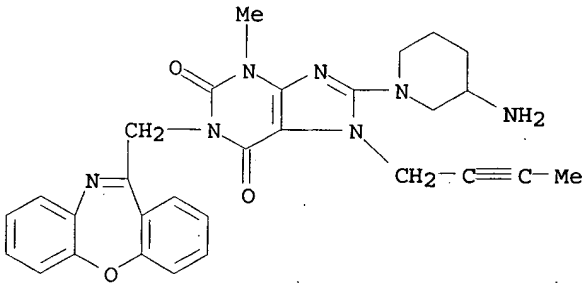


●x HCl

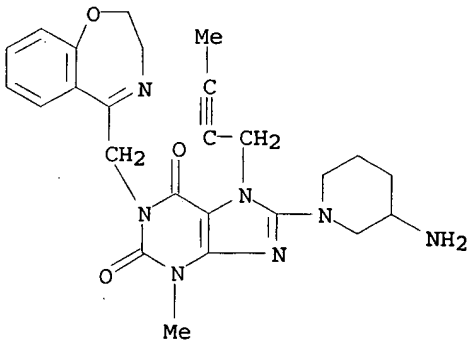
RN 690996-72-6 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-7-(2-butynyl)-1-(11H-dibenz[b,e]azepin-6-ylmethyl)-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)



RN 690996-73-7 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-7-(2-butynyl)-1-(dibenz[b,f][1,4]oxazepin-11-ylmethyl)-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

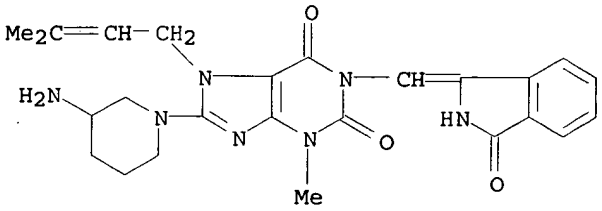


RN 690996-74-8 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-7-(2-butynyl)-1-[(2,3-dihydro-1,4-benzoxazepin-5-yl)methyl]-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

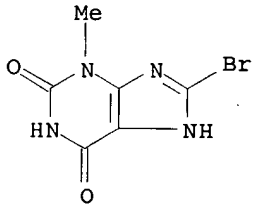


RN 690996-75-9 HCAPLUS
CN 1H-Purine-2,6-dione, 8-(3-amino-1-piperidinyl)-1-[(2,3-dihydro-3-oxo-1H-isoindol-1-ylidene)methyl]-3,7-dihydro-3-methyl-7-(3-methyl-

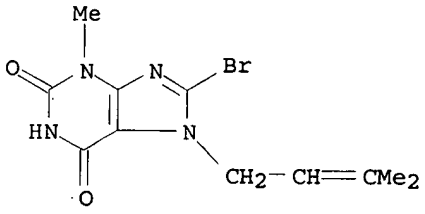
2-butenyl)- (9CI) (CA INDEX NAME)



IT **93703-24-3**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))
RN 93703-24-3 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

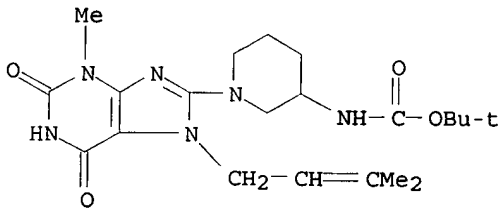


IT **313273-69-7P 454709-36-5P 666816-89-3P**
666816-95-1P 666816-98-4P 666816-99-5P
668272-43-3P 668272-54-6P 668272-95-5P
668273-16-3P 668273-53-8P 668274-80-4P
668274-97-3P 668275-59-0P 690996-52-2P
690996-53-3P 690996-55-5P 690996-56-6P
690996-57-7P 690996-63-5P 690996-64-6P
690996-65-7P 690996-66-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))
RN 313273-69-7 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-3,7-dihydro-3-methyl-7-(3-methyl-2-butenyl)- (9CI) (CA INDEX NAME)



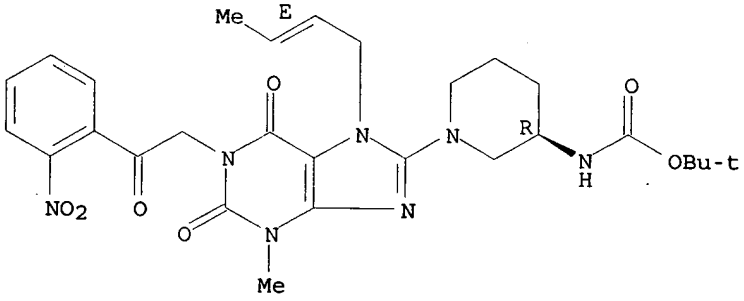
RN 454709-36-5 HCAPLUS
CN Carbamic acid, [1-[2,3,6,7-tetrahydro-3-methyl-7-(3-methyl-2-butenyl)-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-,

1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



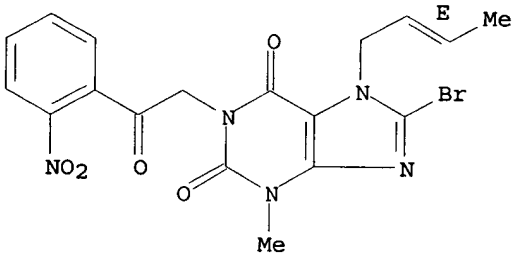
RN 666816-89-3 HCAPLUS
CN Carbamic acid, [(3R)-1-[7-(2E)-2-butenyl-2,3,6,7-tetrahydro-3-methyl-1-[2-(2-nitrophenyl)-2-oxoethyl]-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

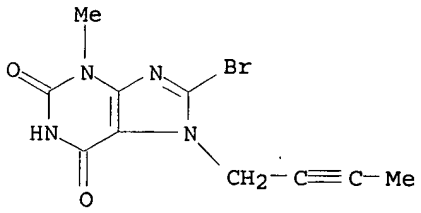


RN 666816-95-1 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-7-(2E)-2-butenyl-3,7-dihydro-3-methyl-1-[2-(2-nitrophenyl)-2-oxoethyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

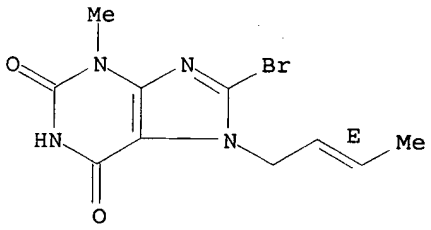


RN 666816-98-4 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-7-(2-butynyl)-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

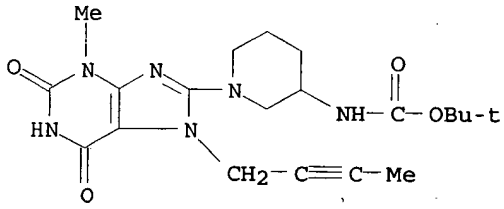


RN 666816-99-5 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-7-(2E)-2-butenyl-3,7-dihydro-3-methyl- (9CI) (CA INDEX NAME)

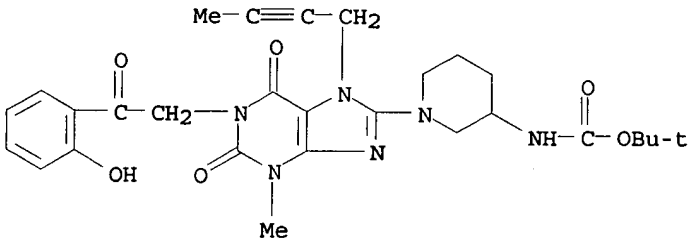
Double bond geometry as shown.



RN 668272-43-3 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

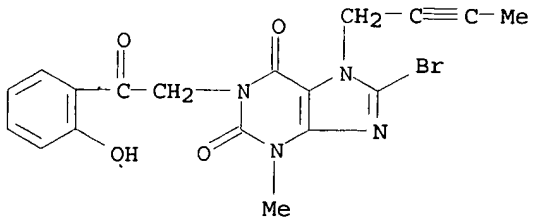


RN 668272-54-6 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-2,3,6,7-tetrahydro-1-[2-(2-hydroxyphenyl)-2-oxoethyl]-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

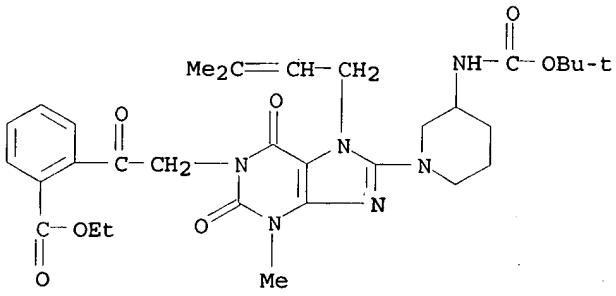


RN 668272-95-5 HCAPLUS

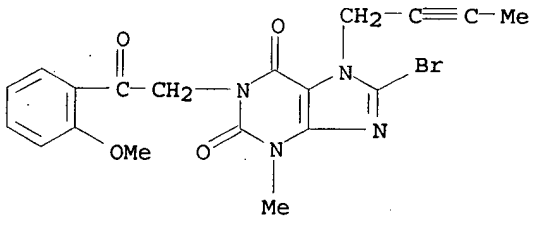
CN 1H-Purine-2,6-dione, 8-bromo-7-(2-butynyl)-3,7-dihydro-1-[2-(2-hydroxyphenyl)-2-oxoethyl]-3-methyl- (9CI) (CA INDEX NAME)



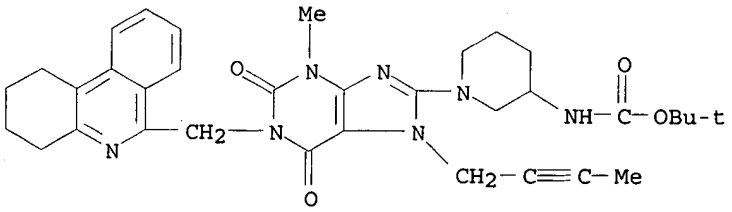
RN 668273-16-3 HCAPLUS
CN Benzoic acid, 2-[[8-[3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-piperidinyl]-2,3,6,7-tetrahydro-3-methyl-7-(3-methyl-2-butenyl)-2,6-dioxo-1H-purin-1-yl]acetyl]-, ethyl ester (9CI) (CA INDEX NAME)



RN 668273-53-8 HCAPLUS
CN 1H-Purine-2,6-dione, 8-bromo-7-(2-butynyl)-3,7-dihydro-1-[2-(2-methoxyphenyl)-2-oxoethyl]-3-methyl- (9CI) (CA INDEX NAME)

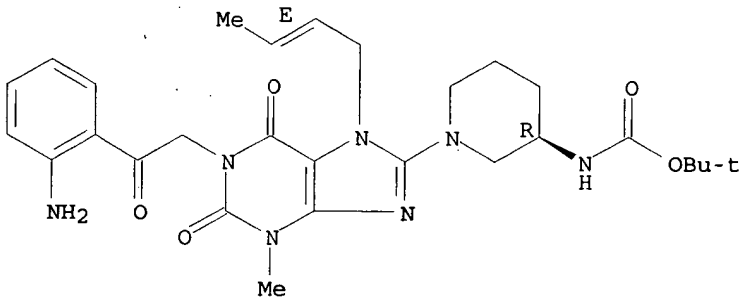


RN 668274-80-4 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1-[(1,2,3,4-tetrahydro-6-phenanthridinyl)methyl]-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

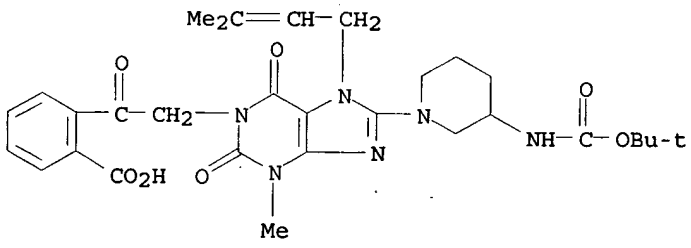


RN 668274-97-3 HCAPLUS
CN Carbamic acid, [(3R)-1-[1-[2-(2-aminophenyl)-2-oxoethyl]-7-(2E)-2-butenyl-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

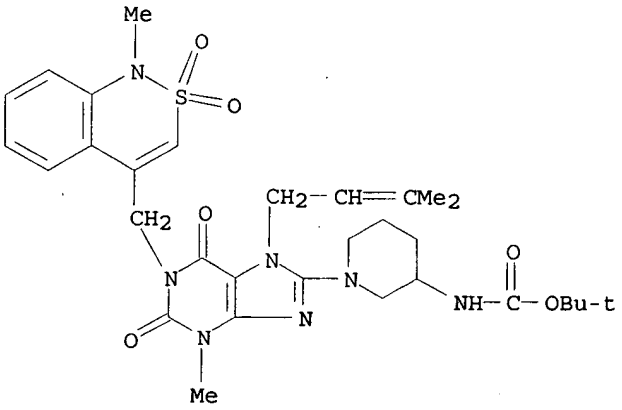
Absolute stereochemistry.
Double bond geometry as shown.



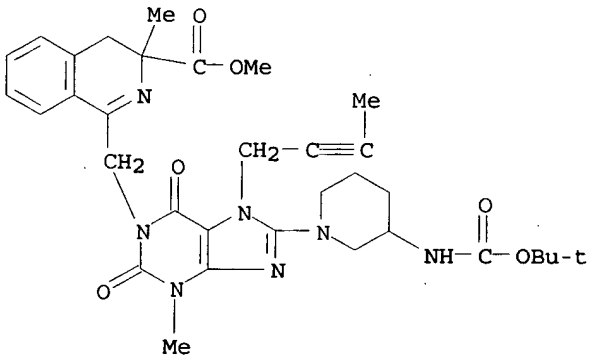
RN 668275-59-0 HCAPLUS
CN Benzoic acid, 2-[[8-[3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-piperidinyl]-2,3,6,7-tetrahydro-3-methyl-7-(3-methyl-2-butenyl)-2,6-dioxo-1H-purin-1-yl]acetyl]- (9CI) (CA INDEX NAME)



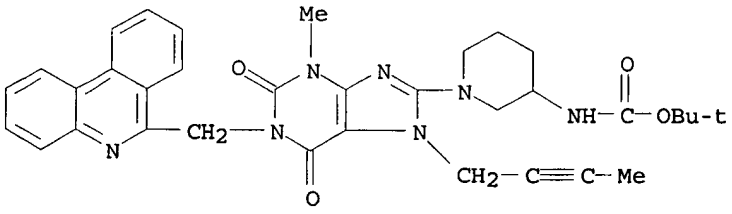
RN 690996-52-2 HCAPLUS
CN Carbamic acid, [1-[2,3,6,7-tetrahydro-3-methyl-7-(3-methyl-2-butenyl)-1-[(1-methyl-2,2-dioxido-1H-2,1-benzothiazin-4-yl)methyl]-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



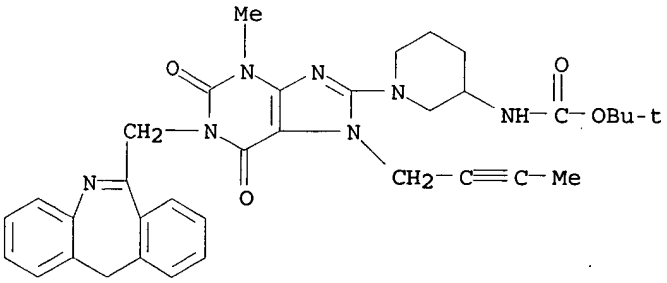
RN 690996-53-3 HCAPLUS
CN 3-Isoquinolinecarboxylic acid, 1-[[7-(2-butynyl)-8-[3-[[(1,1-dimethylethoxy)carbonyl]amino]-1-piperidinyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-1-yl]methyl]-3,4-dihydro-3-methyl-, methyl ester (9CI) (CA INDEX NAME)



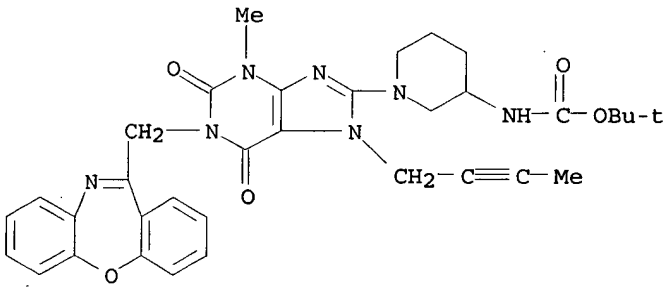
RN 690996-55-5 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1-(6-phenanthridinylmethyl)-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



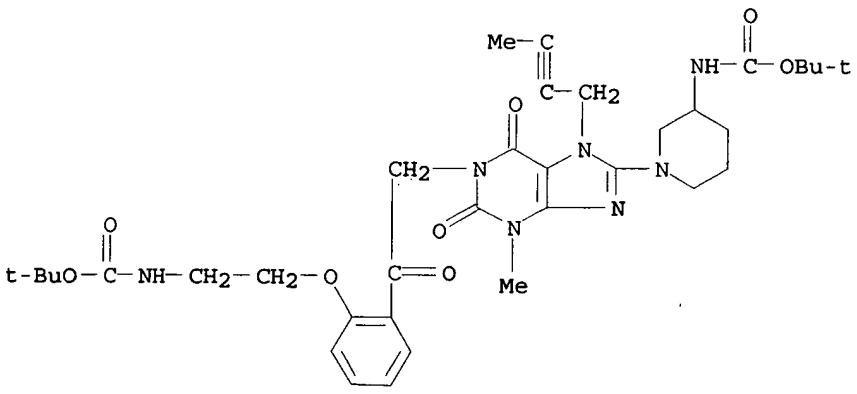
RN 690996-56-6 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-1-(11H-dibenz[b,e]azepin-6-ylmethyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 690996-57-7 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-1-(dibenz[b,f][1,4]oxazepin-11-ylmethyl)-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

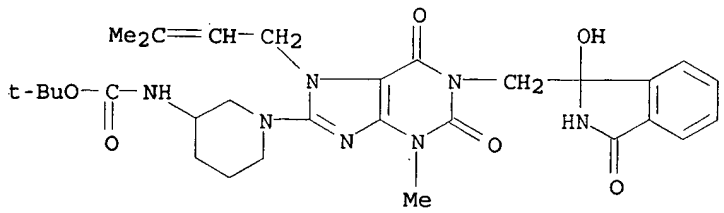


RN 690996-63-5 HCAPLUS
CN Carbamic acid, [1-[7-(2-butynyl)-1-[2-[2-[2-[[(1,1-dimethylethoxy)carbonyl]amino]ethoxy]phenyl]-2-oxoethyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



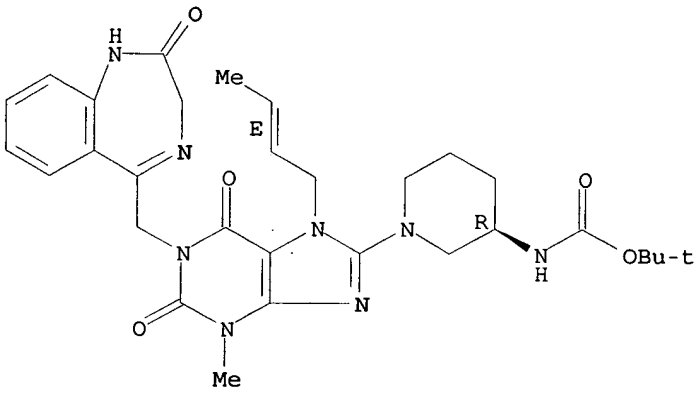
RN 690996-64-6 HCAPLUS
CN Carbamic acid, [1-[1-[(2,3-dihydro-1-hydroxy-3-oxo-1H-isoindol-1-yl)methyl]-2,3,6,7-tetrahydro-3-methyl-7-(3-methyl-2-butenyl)-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester

(9CI) (CA INDEX NAME)



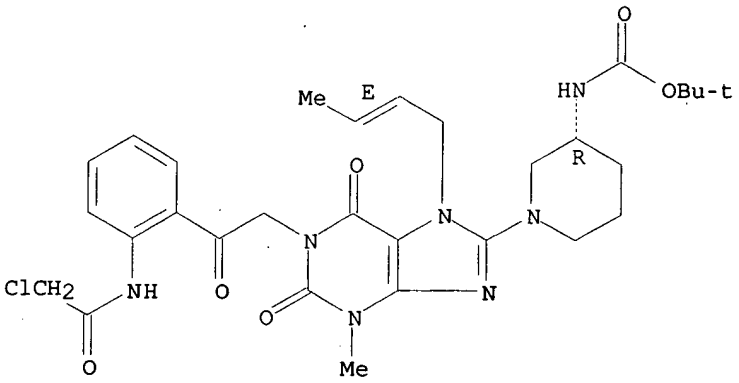
RN 690996-65-7 HCAPLUS
CN Carbamic acid, [(3R)-1-[7-(2E)-2-butenyl-1-[(2,3-dihydro-2-oxo-1H-1,4-benzodiazepin-5-yl)methyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



RN 690996-66-8 HCAPLUS
CN Carbamic acid, [(3R)-1-[7-(2E)-2-butenyl-1-[2-[2-[(chloroacetyl)amino]phenyl]-2-oxoethyl]-2,3,6,7-tetrahydro-3-methyl-2,6-dioxo-1H-purin-8-yl]-3-piperidinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.



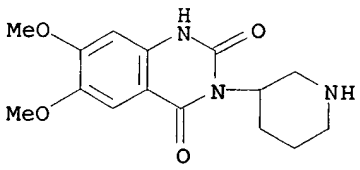
IC ICM C07D473-02
CC 26-9 (Biomolecules and Their Synthetic Analogs)
Section cross-reference(s): 1, 63
IT **668271-72-5P 690996-68-0P 690996-69-1P**
690996-70-4P 690996-71-5P 690996-72-6P
690996-73-7P 690996-74-8P 690996-75-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))
IT 870-63-3, 3,3-Dimethylallyl bromide 7117-09-1 39684-80-5
93703-24-3 127525-80-8 172603-05-3 690996-62-4
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))
IT **313273-69-7P 454709-36-5P 666816-89-3P**
666816-95-1P 666816-98-4P 666816-99-5P
668272-43-3P 668272-54-6P 668272-95-5P
668273-16-3P 668273-53-8P 668274-80-4P
668274-97-3P 668275-49-8P **668275-59-0P**
668276-51-5P **690996-52-2P 690996-53-3P**
690996-55-5P 690996-56-6P 690996-57-7P
690996-58-8P 690996-61-3P **690996-63-5P**
690996-64-6P 690996-65-7P 690996-66-8P
690996-67-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation of xanthines as inhibitors of dipeptidyl peptidase IV (DPP-IV))

L177 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
2003:758931 Document No. 139:364813 Synthesis and Pharmacological Evaluation of 1-Oxo-2-(3-piperidyl)-1,2,3,4-tetrahydroisoquinolines and Related Analogues as a New Class of Specific Bradycardic Agents Possessing If Channel Inhibitory Activity. Kubota, Hideki; Kakefuda, Akio; Watanabe, Toshihiro; Ishii, Noe; Wada, Koichi; Masuda, Noriyuki; Sakamoto, Shuichi; Tsukamoto, Shin-Ichi (Institute for Drug Discovery Research, Yamanouchi Pharmaceutical Co. Ltd., Tsukuba, Ibaraki, 305-8585, Japan). Journal of Medicinal Chemistry, 46(22), 4728-4740 (English) 2003. CODEN: JMCMAR. ISSN: 0022-2623. OTHER SOURCES: CASREACT 139:364813. Publisher: American Chemical Society.
AB A series of 1-oxo-2-(3-piperidyl)-1,2,3,4-tetrahydroisoquinolines

and related analogs were prepared and evaluated for their bradycardic activities in isolated right atrium and in anesthetized rats. (±)-6,7-Dimethoxy-2-{1-[3-(3,4-methylenedioxyphenoxy)propyl]-3-piperidyl}-1,2,3,4-tetrahydroisoquinoline was chosen as a lead, and structural modifications were performed on the tetrahydroisoquinoline ring and the terminal aromatic ring. The modifications on the tetrahydroisoquinoline ring revealed that the 1-oxo-1,2,3,4-tetrahydroisoquinoline ring system was optimum structure for both in vitro potency and in vivo efficacy. Furthermore, methoxy, ethoxy, and methoxycarbonyl groups were identified as preferable substituents on the terminal aromatic ring. One of the 1-oxo-1,2,3,4-tetrahydroisoquinoline derivs., was further evaluated for its bradycardic activity and inhibitory activity against If currents. This compound demonstrated potent bradycardic activity in rats with minimal influence on blood pressure after oral administration. The compound also showed inhibition of If currents (IC50 = 0.32 μM) in guinea pig pacemaker cells.

IT **619329-94-1P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); **RACT (Reactant or reagent)**
(coupling reaction of; preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)

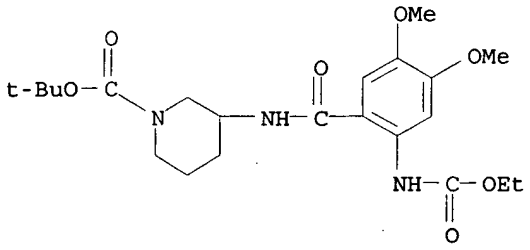
RN 619329-94-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6,7-dimethoxy-3-(3-piperidinyl)-, monohydrochloride (9CI) (CA INDEX NAME)



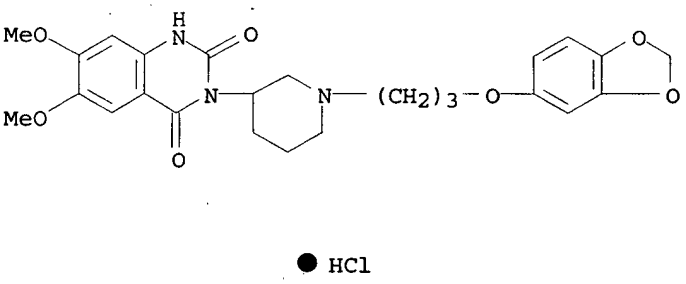
● HCl

IT **619329-93-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(cyclization of; preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)

RN 619329-93-0 HCAPLUS
CN 1-Piperidinecarboxylic acid, 3-[[2-[(ethoxycarbonyl)amino]-4,5-dimethoxybenzoyl]amino]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT **619329-95-2P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)
RN 619329-95-2 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[3-(1,3-benzodioxol-5-yloxy)propyl]-3-piperidinyl]-6,7-dimethoxy-, monohydrochloride (9CI) (CA INDEX NAME)



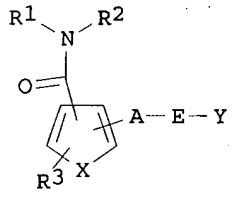
● HCl

CC 27-17 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1
IT 120-20-7, 3,4-Dimethoxyphenethylamine 66802-60-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of; preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)
IT **619329-94-1P**
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); **RACT (Reactant or reagent)**
(coupling reaction of; preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)
IT 204979-28-2P **619329-93-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(cyclization of; preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)
IT 204979-57-7P 204979-61-3P 204979-86-2P 204979-89-5P
204979-90-8P 204979-91-9P 204979-94-2P 204979-95-3P
204980-10-9P 204980-11-0P 204980-12-1P 204980-13-2P

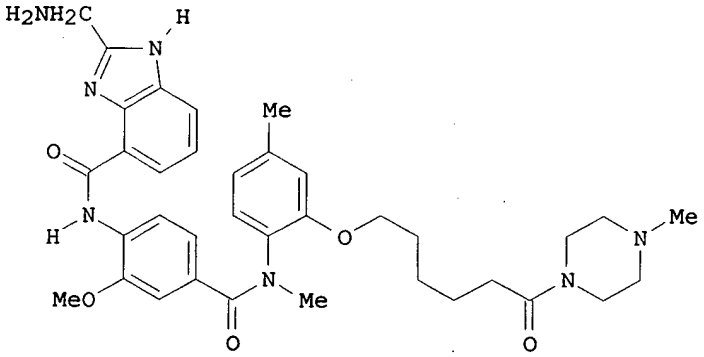
204980-14-3P 204980-15-4P 204980-16-5P 204980-17-6P
619329-69-0P 619329-70-3P 619329-71-4P 619329-74-7P
619329-78-1P 619329-81-6P 619329-82-7P 619329-83-8P
619329-86-1P 619329-89-4P 619329-90-7P 619329-92-9P
619329-95-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation of oxo(piperidyl)tetrahydroisoquinolines and related analogs as class of specific bradycardic agents possessing If channel inhibitory activity)

L177 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1998:394328 Document No. 129:67773 Preparation of benzamide derivatives having a vasopressin antagonistic activity. Setoi, Hiroyuki; Ohkawa, Takehiko; Zenkoh, Tatsuya; Sawada, Hitoshi; Sawada, Yuki; Oku, Teruo (Fujisawa Pharmaceutical Co., Ltd., Japan). PCT Int. Appl. WO 9824771 A1 19980611, 332 pp.
DESIGNATED STATES: W: AU, CA, CN, HU, IL, JP, KR, MX, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE. (English). CODEN: PIXXD2.
APPLICATION: WO 1997-JP4192 19971118. PRIORITY: AU 1996-3953 19961202.

GI



I



II

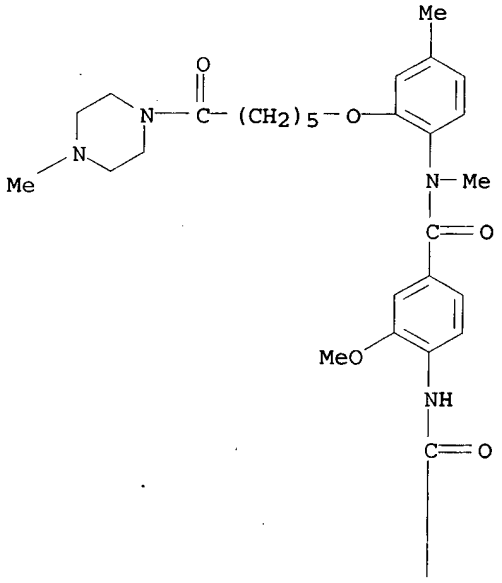
AB The title compds. [I; R1 = (un)substituted aryl, cyclo(lower)alkyl, heterocyclyl; R2 = H, lower alkyl, etc.; R3 = H, halo, OH, etc.; A = a single bond, O, NH; E = lower alkylene, lower alkenylene, etc.; X = CH:CH, CH:N, S; Y = (un)substituted aryl, **condensed** heterocyclyl, etc.] and their pharmaceutically acceptable salts, useful in treatment and/or prevention of hypertension, heart failure, renal insufficiency, edema, ascites, vasopressin parasecretion syndrome, hepatocirrhosis, hyponatremia, hypokalemia, diabetic, circulation

disorder, cerebrovascular disease, Meniere's disease or motion sickness, were prepared Thus, the title compound II showed IC50 of 1.5 nM against vasopressin 1 receptor binding.

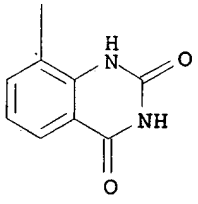
IT **208769-10-2P 208769-15-7P 208770-34-7P 208771-25-9P 208771-88-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

RN 208769-10-2 HCAPLUS
CN 8-Quinazolinecarboxamide, 1,2,3,4-tetrahydro-N-[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]-2,4-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



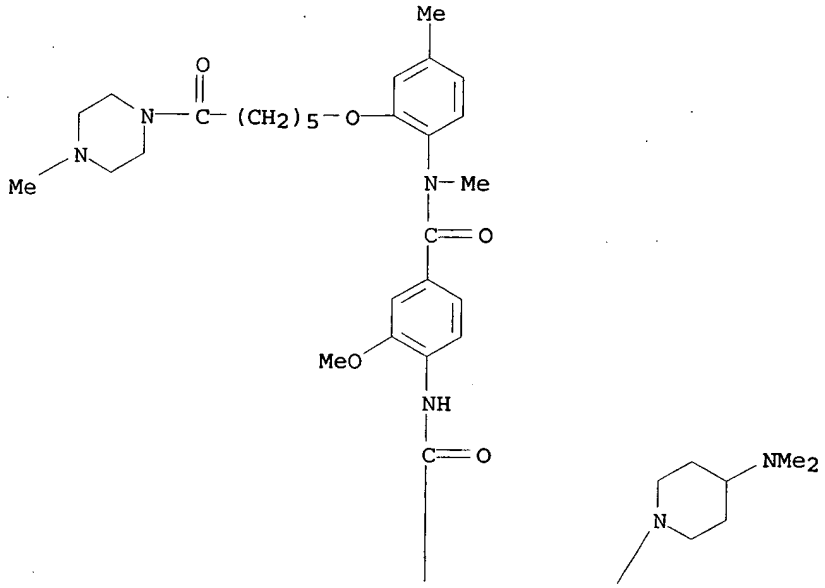
PAGE 2-A



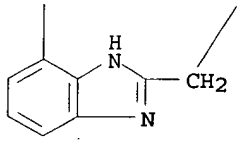
RN 208769-15-7 HCAPLUS
CN 1H-Benzimidazole-4-carboxamide, 2-[[4-(dimethylamino)-1-piperidinyl]methyl]-N-[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]-

(9CI) (CA INDEX NAME)

PAGE 1-A

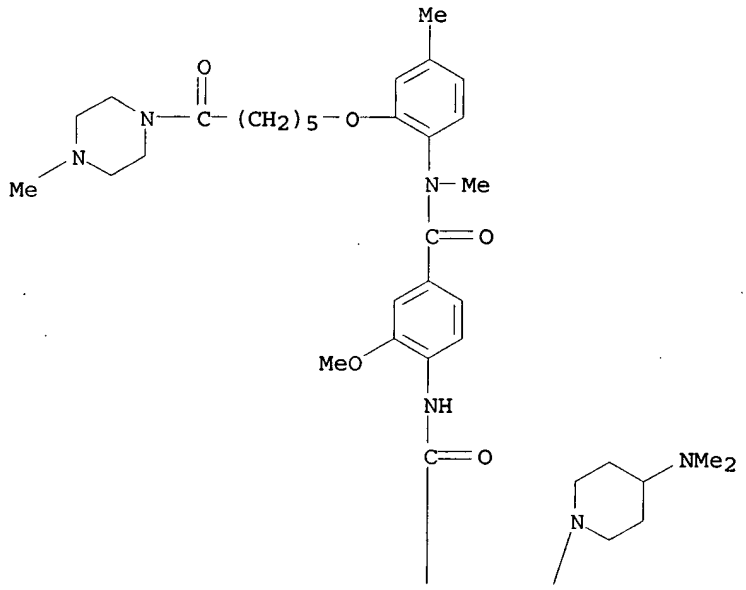


PAGE 2-A

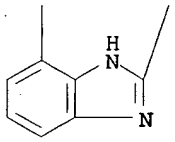


RN 208770-34-7 HCAPLUS
CN 1H-Benzimidazole-4-carboxamide, 2-[4-(dimethylamino)-1-piperidinyl]-N-[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]- (9CI) (CA INDEX NAME)

PAGE 1-A

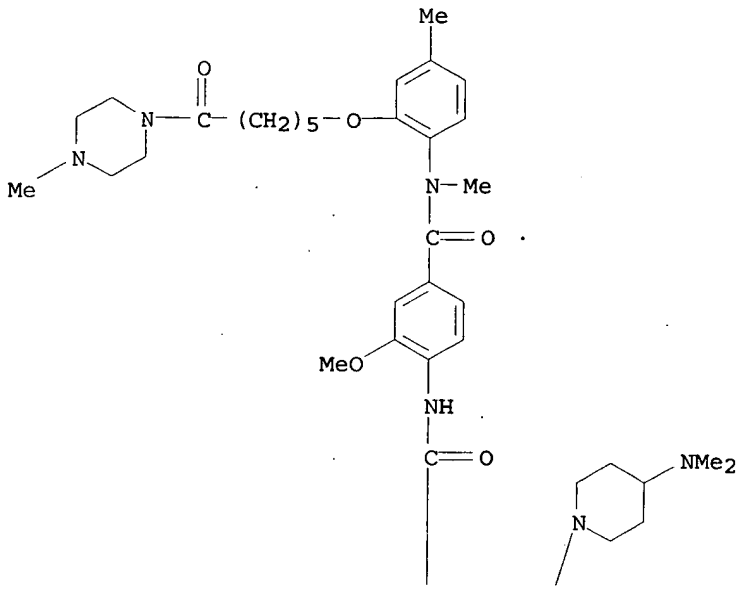


PAGE 2-A

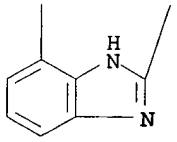


RN 208771-25-9 HCAPLUS
CN 1H-Benzimidazole-4-carboxamide, 2-[4-(dimethylamino)-1-piperidinyl]-N-[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]-, dihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A



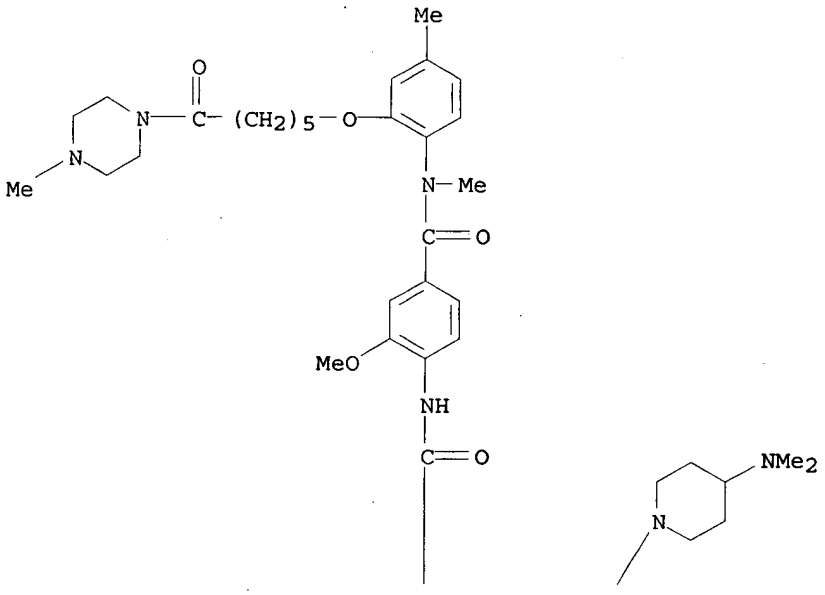
PAGE 2-A



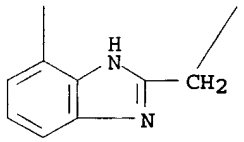
●2 HCl

RN 208771-88-4 HCAPLUS
CN 1H-Benzimidazole-4-carboxamide, 2-[[4-(dimethylamino)-1-piperidinyl]methyl]-N-[2-methoxy-4-[[methyl[4-methyl-2-[[6-(4-methyl-1-piperazinyl)-6-oxohexyl]oxy]phenyl]amino]carbonyl]phenyl]-, trihydrochloride (9CI) (CA INDEX NAME)

PAGE 1-A

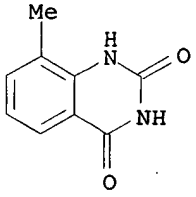


PAGE 2-A



●3 HCl

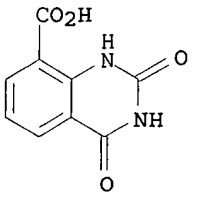
IT **67449-23-4**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(preparation of benzamide derivs. having a vasopressin antagonistic activity)
RN 67449-23-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 8-methyl- (9CI) (CA INDEX NAME)



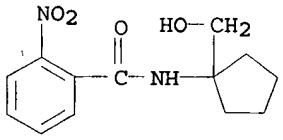
IT **90418-81-8P 208772-31-0P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

RN 90418-81-8 HCAPLUS
CN 8-Quinazolinecarboxylic acid, 1,2,3,4-tetrahydro-2,4-dioxo- (9CI) (CA INDEX NAME)



RN 208772-31-0 HCAPLUS
CN Benzamide, N-[1-(hydroxymethyl)cyclopentyl]-2-nitro- (9CI) (CA INDEX NAME)



IC ICM C07D235-08
ICS A61K031-415; A61K031-40; C07D235-14; C07D235-30; C07D209-08; C07D209-42; C07D235-12; C07D235-24; C07D235-06; C07D235-10; C07D235-26; C07D209-12; C07D401-04; C07D401-06

CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1

IT 208767-69-5P 208767-72-0P 208767-75-3P 208767-77-5P
208767-79-7P 208767-81-1P 208767-86-6P 208767-87-7P
208767-88-8P 208767-89-9P 208767-90-2P 208767-91-3P
208767-93-5P 208767-95-7P 208767-96-8P 208767-98-0P
208767-99-1P 208768-00-7P 208768-02-9P 208768-04-1P
208768-06-3P 208768-08-5P 208768-10-9P 208768-12-1P
208768-13-2P 208768-15-4P 208768-16-5P 208768-17-6P
208768-18-7P 208768-19-8P 208768-21-2P 208768-23-4P
208768-24-5P 208768-25-6P 208768-26-7P 208768-28-9P
208768-29-0P 208768-30-3P 208768-31-4P 208768-32-5P
208768-33-6P 208768-34-7P 208768-35-8P 208768-37-0P
208768-38-1P 208768-39-2P 208768-40-5P 208768-41-6P
208768-42-7P 208768-43-8P 208768-44-9P 208768-45-0P
208768-46-1P 208768-47-2P 208768-48-3P 208768-49-4P
208768-50-7P 208768-51-8P 208768-52-9P 208768-53-0P
208768-54-1P 208768-55-2P 208768-56-3P 208768-57-4P
208768-58-5P 208768-59-6P 208768-60-9P 208768-61-0P
208768-62-1P 208768-63-2P 208768-65-4P 208768-66-5P
208768-67-6P 208768-68-7P 208768-69-8P 208768-70-1P
208768-71-2P 208768-74-5P 208768-76-7P 208768-77-8P
208768-78-9P 208768-79-0P 208768-80-3P 208768-81-4P
208768-82-5P 208768-83-6P 208768-84-7P 208768-86-9P
208768-89-2P 208768-90-5P 208768-91-6P 208768-92-7P
208768-93-8P 208768-95-0P 208768-97-2P 208768-98-3P

208768-99-4P 208769-00-0P 208769-01-1P 208769-02-2P
208769-03-3P 208769-05-5P 208769-06-6P 208769-07-7P
208769-08-8P 208769-09-9P **208769-10-2P** 208769-11-3P
208769-12-4P 208769-13-5P 208769-14-6P **208769-15-7P**
208769-16-8P 208769-17-9P 208769-18-0P 208769-19-1P
208769-20-4P 208769-21-5P 208769-22-6P 208769-23-7P
208769-26-0P 208769-28-2P 208769-30-6P 208769-32-8P
208769-33-9P 208769-34-0P 208769-35-1P 208769-36-2P
208769-37-3P 208769-38-4P 208769-39-5P 208769-40-8P
208769-41-9P 208769-42-0P 208769-45-3P 208769-46-4P
208769-47-5P 208769-48-6P 208769-49-7P 208769-50-0P
208769-52-2P 208769-53-3P 208769-55-5P 208769-56-6P
208769-57-7P 208769-58-8P 208769-59-9P 208769-60-2P
208769-61-3P 208769-62-4P 208769-63-5P 208769-64-6P
208769-66-8P 208769-67-9P 208769-68-0P 208769-69-1P
208769-70-4P 208769-71-5P 208769-72-6P 208769-73-7P
208769-74-8P 208769-75-9P 208769-76-0P 208769-77-1P
208769-78-2P 208769-79-3P 208769-80-6P 208769-81-7P
208769-82-8P 208769-83-9P 208769-84-0P 208769-85-1P
208769-87-3P 208769-88-4P 208769-89-5P 208769-90-8P
208769-91-9P 208769-92-0P 208769-93-1P 208769-94-2P
208769-95-3P 208769-96-4P 208769-97-5P 208769-98-6P
208769-99-7P 208770-00-7P 208770-01-8P 208770-02-9P
208770-04-1P 208770-05-2P 208770-06-3P 208770-09-6P
208770-11-0P 208770-12-1P 208770-13-2P 208770-14-3P
208770-15-4P 208770-16-5P 208770-17-6P 208770-18-7P
208770-19-8P 208770-20-1P 208770-21-2P 208770-22-3P
208770-23-4P 208770-24-5P 208770-25-6P 208770-26-7P
208770-27-8P 208770-28-9P 208770-29-0P 208770-30-3P
208770-31-4P 208770-32-5P 208770-33-6P **208770-34-7P**
208770-35-8P 208770-36-9P 208770-37-0P 208770-38-1P
208770-39-2P 208770-40-5P 208770-41-6P 208770-42-7P
208770-43-8P 208770-44-9P 208770-45-0P 208770-46-1P
208770-47-2P 208770-48-3P 208770-49-4P 208770-50-7P
208770-51-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

IT 208770-53-0P 208770-54-1P 208770-55-2P 208770-56-3P
208770-57-4P 208770-58-5P 208770-59-6P 208770-60-9P
208770-61-0P 208770-62-1P 208770-63-2P 208770-64-3P
208770-66-5P 208770-67-6P 208770-68-7P 208770-69-8P
208770-70-1P 208770-71-2P 208770-72-3P 208770-73-4P
208770-74-5P 208770-75-6P 208770-76-7P 208770-77-8P
208770-78-9P 208770-79-0P 208770-80-3P 208770-81-4P
208770-82-5P 208770-83-6P 208770-84-7P 208770-85-8P
208770-87-0P 208770-89-2P 208770-90-5P 208770-91-6P
208770-92-7P 208770-93-8P 208770-94-9P 208770-95-0P
208770-96-1P 208770-97-2P 208770-98-3P 208770-99-4P
208771-00-0P 208771-01-1P 208771-02-2P 208771-03-3P
208771-04-4P 208771-05-5P 208771-06-6P 208771-07-7P
208771-08-8P 208771-09-9P 208771-10-2P 208771-11-3P
208771-12-4P 208771-13-5P 208771-14-6P 208771-15-7P
208771-16-8P 208771-17-9P 208771-18-0P 208771-19-1P
208771-20-4P 208771-21-5P 208771-22-6P 208771-23-7P
208771-24-8P **208771-25-9P** 208771-26-0P 208771-27-1P
208771-28-2P 208771-29-3P 208771-30-6P 208771-31-7P
208771-32-8P 208771-33-9P 208771-34-0P 208771-35-1P
208771-36-2P 208771-37-3P 208771-38-4P 208771-39-5P

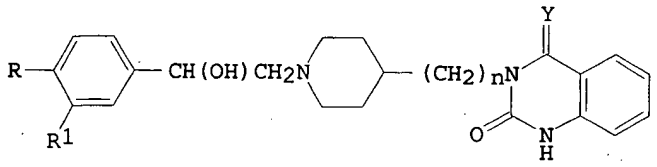
208771-40-8P 208771-41-9P 208771-42-0P 208771-43-1P
208771-44-2P 208771-45-3P 208771-46-4P 208771-47-5P
208771-48-6P 208771-49-7P 208771-50-0P 208771-51-1P
208771-52-2P 208771-53-3P 208771-54-4P 208771-55-5P
208771-56-6P 208771-57-7P 208771-58-8P 208771-59-9P
208771-60-2P 208771-61-3P 208771-62-4P 208771-63-5P
208771-64-6P 208771-65-7P 208771-66-8P 208771-67-9P
208771-68-0P 208771-69-1P 208771-70-4P 208771-71-5P
208771-72-6P 208771-73-7P 208771-74-8P 208771-75-9P
208771-76-0P 208771-77-1P 208771-78-2P 208771-79-3P
208771-80-6P 208771-81-7P 208771-83-9P 208771-84-0P
208771-85-1P 208771-86-2P 208771-87-3P **208771-88-4P**
208771-89-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

IT 85-41-6, Phthalimide 96-48-0, Butyrolactone 98-59-9, p-Toluenesulfonyl chloride 108-00-9 109-01-3, N-Methylpiperazine 110-91-8, Morpholine, reactions 288-32-4, Imidazole, reactions 541-41-3, Ethyl chloroformate 548-93-6, 2-Amino-3-hydroxybenzoic acid 570-23-0 606-18-8 2124-55-2, Indole-4-carboxylic acid 2687-25-4, 2,3-Diaminotoluene 3694-52-8 4885-03-4 5394-18-3, N-(4-Bromobutyl)phthalimide 6780-38-7 6994-25-8 14254-57-0, Isonicotinoyl chloride 15965-55-6 18522-95-7, Ethyl N-methyloxamate 18997-19-8, Chloromethyl pivalate 19810-31-2 24370-22-7 33265-60-0 37466-88-9 39830-66-5 57260-71-6 61063-11-4 **67449-23-4** 73816-11-2 76320-88-2 78316-08-2 79463-77-7, Diphenyl N-cyanocarbonimidate 84401-11-6 136285-65-9 162046-51-7 170648-89-2 172092-29-4 186662-85-1 208774-33-8 208774-37-2 208774-38-3 208774-46-3 208774-47-4 208774-50-9 208774-55-4 208774-57-6 208774-59-8 208774-62-3 208774-66-7 208774-67-8 208774-68-9
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

IT 3416-93-1P 6025-60-1P 53462-88-7P 62208-63-3P 62882-10-4P 63478-10-4P 84946-21-4P 88186-34-9P **90418-81-8P** 90915-72-3P 99876-57-0P 99876-60-5P 99876-61-6P 99876-68-3P 101237-08-5P 114936-07-1P 123892-69-3P 124340-85-8P 124340-89-2P 124340-93-8P 136616-60-9P 167479-16-5P 177212-93-0P 180605-36-1P 208771-90-8P 208771-91-9P 208771-92-0P 208771-93-1P 208771-94-2P 208771-95-3P 208771-96-4P 208771-97-5P 208771-98-6P 208771-99-7P 208772-00-3P 208772-01-4P 208772-02-5P 208772-03-6P 208772-04-7P 208772-05-8P 208772-06-9P 208772-07-0P 208772-08-1P 208772-09-2P 208772-10-5P 208772-11-6P 208772-12-7P 208772-13-8P 208772-14-9P 208772-15-0P 208772-16-1P 208772-17-2P 208772-18-3P 208772-19-4P 208772-20-7P 208772-21-8P 208772-22-9P 208772-23-0P, 4-Benzoxazolecarboxylic acid 208772-24-1P, 7-Benzoxazolecarboxylic acid 208772-25-2P 208772-26-3P 208772-27-4P 208772-28-5P 208772-29-6P 208772-30-9P **208772-31-0P** 208772-32-1P 208772-33-2P 208772-34-3P 208772-35-4P 208772-36-5P 208772-37-6P 208772-38-7P 208772-39-8P 208772-40-1P 208772-41-2P 208772-42-3P 208772-43-4P 208772-44-5P 208772-45-6P 208772-46-7P 208772-47-8P 208772-48-9P 208772-49-0P 208772-50-3P

208772-51-4P 208772-52-5P 208772-53-6P 208772-54-7P
208772-55-8P 208772-56-9P 208772-57-0P 208772-58-1P
208772-59-2P 208772-60-5P 208772-61-6P 208772-62-7P
208772-63-8P 208772-64-9P 208772-65-0P 208772-66-1P
208772-67-2P 208772-68-3P 208772-69-4P 208772-70-7P
208772-71-8P 208772-72-9P 208772-73-0P 208772-74-1P
208772-75-2P 208772-76-3P 208772-77-4P 208772-78-5P
208772-79-6P 208772-80-9P 208772-81-0P 208772-82-1P
208772-83-2P 208772-84-3P 208772-85-4P 208772-86-5P
208772-87-6P 208772-88-7P 208772-89-8P 208772-90-1P
208772-91-2P 208772-92-3P 208772-93-4P 208772-94-5P
208772-95-6P 208772-96-7P 208772-97-8P 208772-98-9P
208772-99-0P 208773-00-6P 208773-01-7P 208773-02-8P
208773-03-9P 208773-04-0P 208773-05-1P 208773-06-2P
208773-07-3P 208773-08-4P 208773-09-5P 208773-10-8P
208773-11-9P 208773-12-0P 208773-13-1P 208773-14-2P
208773-15-3P 208773-16-4P 208773-17-5P 208773-18-6P
208773-19-7P 208773-20-0P 208773-21-1P 208773-22-2P
208773-23-3P 208773-24-4P 208773-25-5P 208773-26-6P
208773-27-7P 208773-29-9P 208773-30-2P 208773-31-3P
208773-32-4P 208773-33-5P 208773-34-6P 208773-35-7P
208773-36-8P 208773-37-9P 208773-38-0P 208773-39-1P
208773-40-4P 208773-41-5P 208773-42-6P 208773-43-7P
208773-44-8P 208773-46-0P 208773-48-2P 208773-49-3P
208773-50-6P 208773-51-7P 208773-53-9P 208773-56-2P
208773-57-3P 208773-59-5P 208773-60-8P 208773-62-0P
208773-63-1P 208773-65-3P 208773-66-4P 208773-67-5P
208773-68-6P 208773-69-7P 208773-70-0P 208773-71-1P
208773-72-2P 208773-73-3P 208773-74-4P 208773-75-5P
208773-76-6P 208773-79-9P 208773-81-3P 208773-83-5P
208773-85-7P 208773-87-9P 208773-88-0P 208773-90-4P
208773-91-5P 208773-92-6P 208773-93-7P 208773-94-8P
208773-95-9P 208773-96-0P 208773-97-1P 208773-98-2P
208773-99-3P 208774-00-9P 208774-01-0P 208774-02-1P
208774-03-2P 208774-04-3P 208774-05-4P 208774-06-5P
208774-07-6P 208774-08-7P 208774-09-8P 208774-10-1P
208774-11-2P 208774-12-3P 208774-13-4P 208774-14-5P
208774-15-6P 208774-16-7P 208774-17-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation of benzamide derivs. having a vasopressin antagonistic activity)

L177 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1986:583620 Document No. 105:183620 Synthesis of piperidine derivatives with a quinazoline ring system as potential antihypertensive agents. Takai, Haruki; Obase, Hiroyuki; Teranishi, Masayuki; Karasawa, Akira; Kubo, Kazuhiro; Shuto, Katsuichi; Kasuya, Yutaka; Shigenobu, Koki (Tokyo Res. Lab., Kyowa Hakko Kogyo Co., Ltd., Tokyo, 194, Japan). Chemical & Pharmaceutical Bulletin, 34(5), 1907-16 (English) 1986. CODEN: CPBTAL. ISSN: 0009-2363. OTHER SOURCES: CASREACT 105:183620.
GI



I, RR^1=OCH_2O, n=0, Y=O

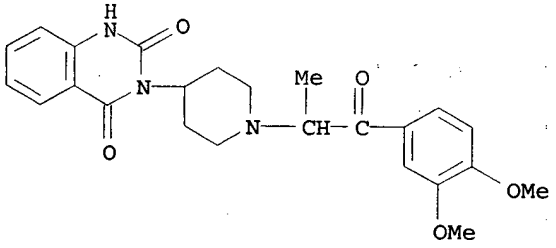
II, R=Cl, R^1=H, n=1, Y=H_2

AB A series of piperidine derivs. with a 2-oxo-1,2,3,4-tetrahydroquinazoline or 2,4-dioxo-1,2,3,4-tetrahydroquinazoline ring at the 4-position were prepared and tested for antihypertensive activity in rats. Among the compds tested, I **[92311-03-0]** and II [92311-10-9] produced relatively strong hypotension in the spontaneously hypertensive rat model.

IT **83425-18-7P 92310-95-7P 92310-96-8P**
92310-97-9P 92310-98-0P 92310-99-1P
92311-00-7P 92311-01-8P 92311-02-9P
92311-03-0P 92311-04-1P 92311-05-2P
92311-06-3P 104260-16-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antihypertensive activity of)

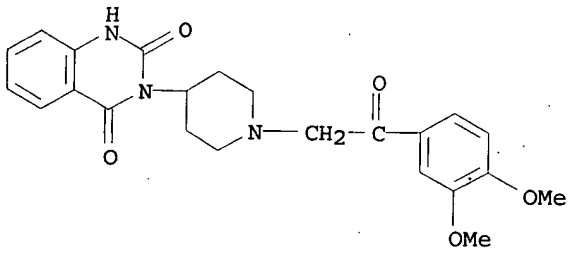
RN 83425-18-7 HCAPLUS

CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(3,4-dimethoxyphenyl)-1-methyl-2-oxoethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)

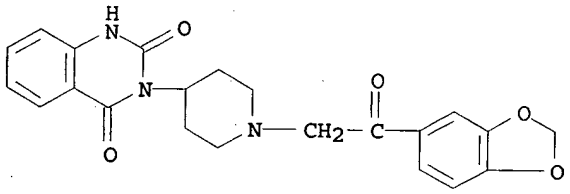


RN 92310-95-7 HCAPLUS

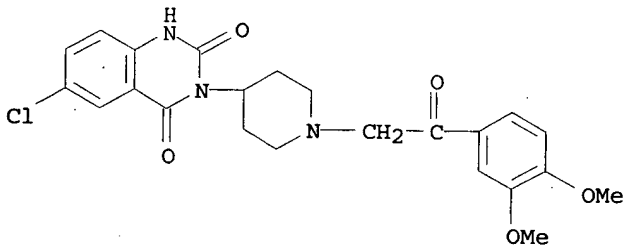
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(3,4-dimethoxyphenyl)-2-oxoethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



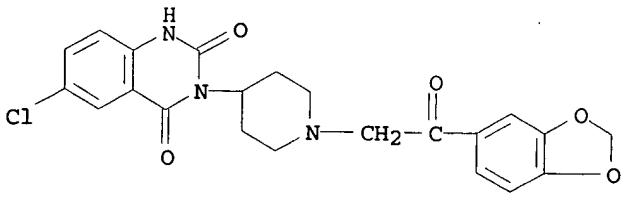
RN 92310-96-8 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(1,3-benzodioxol-5-yl)-2-oxoethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



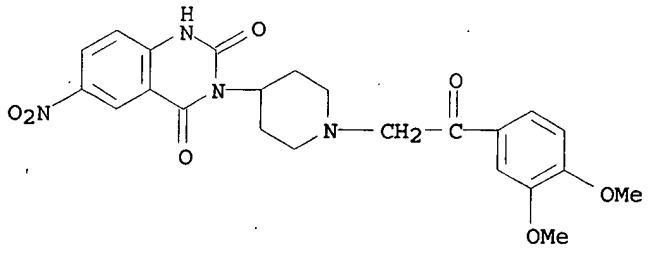
RN 92310-97-9 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-chloro-3-[1-[2-(3,4-dimethoxyphenyl)-2-oxoethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



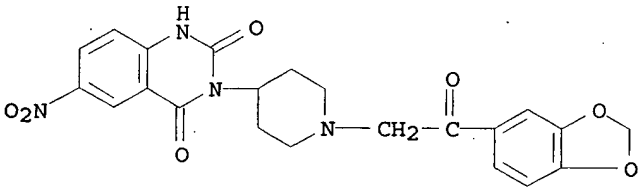
RN 92310-98-0 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(1,3-benzodioxol-5-yl)-2-oxoethyl]-4-piperidinyl]-6-chloro- (9CI) (CA INDEX NAME)



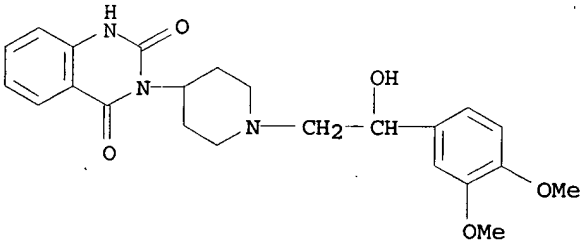
RN 92310-99-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(3,4-dimethoxyphenyl)-2-oxoethyl]-4-piperidinyl]-6-nitro- (9CI) (CA INDEX NAME)



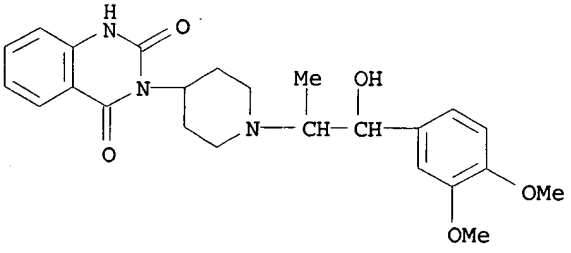
RN 92311-00-7 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(1,3-benzodioxol-5-yl)-2-oxoethyl]-4-piperidinyl]-6-nitro- (9CI) (CA INDEX NAME)



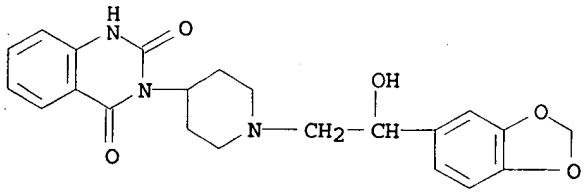
RN 92311-01-8 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(3,4-dimethoxyphenyl)-2-hydroxyethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



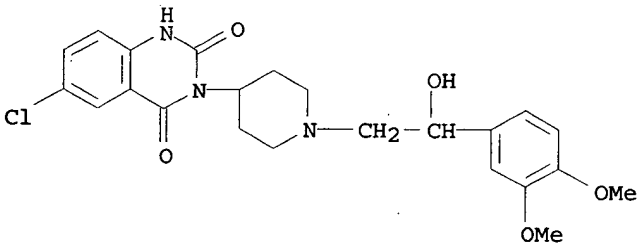
RN 92311-02-9 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(3,4-dimethoxyphenyl)-2-hydroxy-1-methylethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



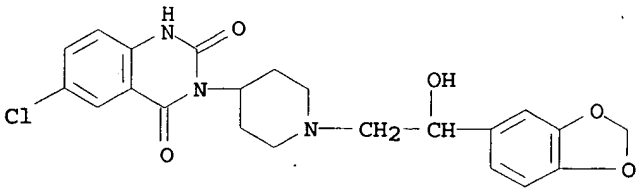
RN 92311-03-0 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(1,3-benzodioxol-5-yl)-2-hydroxyethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



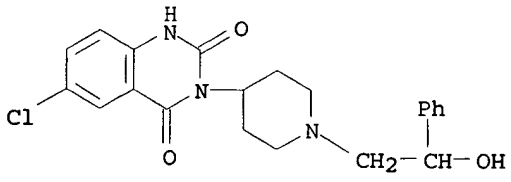
RN 92311-04-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-chloro-3-[1-[2-(3,4-dimethoxyphenyl)-2-hydroxyethyl]-4-piperidinyl]- (9CI) (CA INDEX NAME)



RN 92311-05-2 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[1-[2-(1,3-benzodioxol-5-yl)-2-hydroxyethyl]-4-piperidinyl]-6-chloro- (9CI) (CA INDEX NAME)

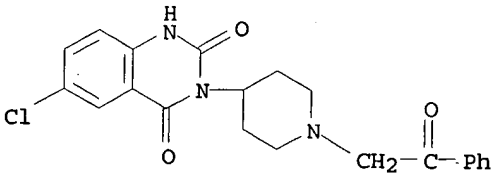


RN 92311-06-3 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-chloro-3-[1-(2-hydroxy-2-phenylethyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)

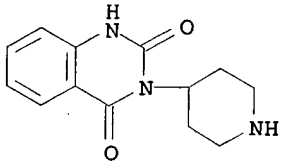


RN 104260-16-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-chloro-3-[1-(2-oxo-2-phenylethyl)-4-

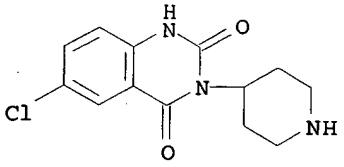
piperidinyl]- (9CI) (CA INDEX NAME)



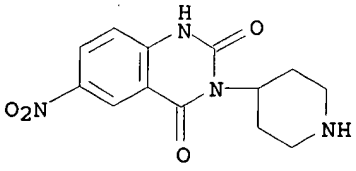
IT **104260-19-7P 104260-20-0P 104260-21-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** with bromoketones)
RN 104260-19-7 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-(4-piperidinyl)- (9CI) (CA INDEX NAME)



RN 104260-20-0 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-chloro-3-(4-piperidinyl)- (9CI) (CA INDEX NAME)

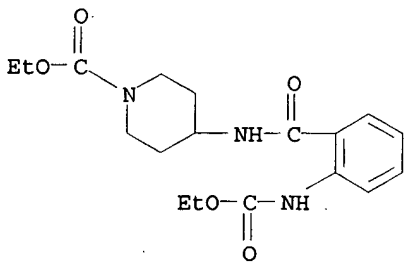


RN 104260-21-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 6-nitro-3-(4-piperidinyl)- (9CI) (CA INDEX NAME)

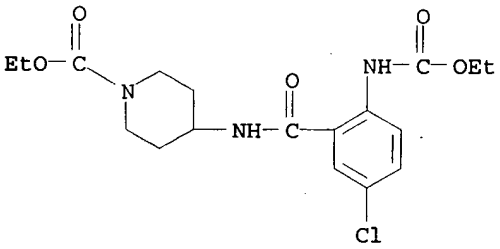


IT **104260-17-5P 104260-18-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and cyclization of)
RN 104260-17-5 HCAPLUS

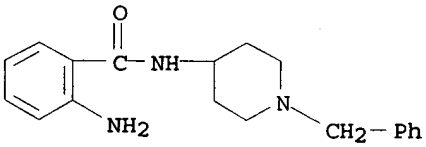
CN 1-Piperidinecarboxylic acid, 4-[[2-[(ethoxycarbonyl)amino]benzoyl] amino]-, ethyl ester (9CI) (CA INDEX NAME)



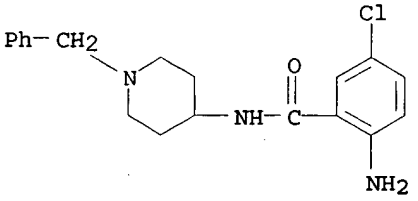
RN 104260-18-6 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[5-chloro-2-[(ethoxycarbonyl)amino]benzoyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



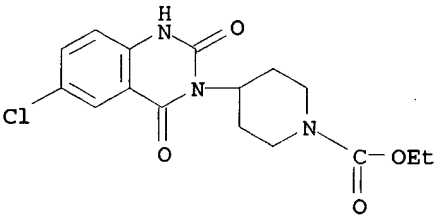
IT **83425-16-5P 83425-17-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and ethylcarboxylation of)
RN 83425-16-5 HCAPLUS
CN Benzamide, 2-amino-N-[1-(phenylmethyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



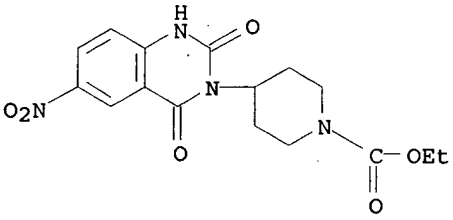
RN 83425-17-6 HCAPLUS
CN Benzamide, 2-amino-5-chloro-N-[1-(phenylmethyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



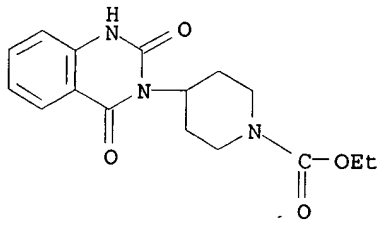
IT **83425-12-1P 83425-14-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and hydrolysis of)
RN 83425-12-1 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-(6-chloro-1,4-dihydro-2,4-dioxo-3(2H)-quinazolinyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 83425-14-3 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-(1,4-dihydro-6-nitro-2,4-dioxo-3(2H)-quinazolinyl)-, ethyl ester (9CI) (CA INDEX NAME)



IT **83425-10-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and hydrolysis or nitration of)
RN 83425-10-9 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-(1,4-dihydro-2,4-dioxo-3(2H)-quinazolinyl)-, ethyl ester (9CI) (CA INDEX NAME)



CC 1-8 (Pharmacology)
Section cross-reference(s): 28

IT 70-11-1 1835-02-5 1835-05-8 40288-65-1
RL: BIOL (Biological study)
(**condensation** of, with (tetrahydroquinazolinyl)piperidines)

IT 118-48-9
RL: BIOL (Biological study)
(**condensation** of, with benzylaminopiperidine dihydrochloride)

IT 4743-17-3
RL: BIOL (Biological study)
(**condensation** of, with benzylaminpiperidine dihydrochloride)

IT 1205-72-7
RL: BIOL (Biological study)
(**condensation** of, with isatoic anhydride)

IT 110-89-4DP, quinazoline derivs. 253-82-7DP, piperidine derivs.
83425-18-7P 92310-95-7P 92310-96-8P
92310-97-9P 92310-98-0P 92310-99-1P
92311-00-7P 92311-01-8P 92311-02-9P
92311-03-0P 92311-04-1P 92311-05-2P
92311-06-3P 92311-07-4P 92311-08-5P 92311-09-6P
92311-10-9P 92311-13-2P 92311-14-3P 92311-15-4P
92311-16-5P 92311-17-6P 92311-18-7P 92311-19-8P
92338-59-5P **104260-16-4P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and antihypertensive activity of)

IT 92311-29-0P **104260-19-7P 104260-20-0P**
104260-21-1P 104260-24-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** with bromoketones)

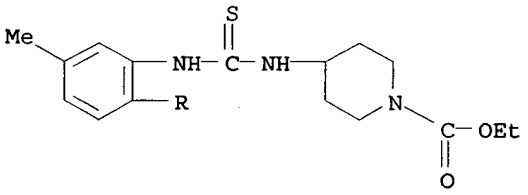
IT **104260-17-5P 104260-18-6P** 104260-23-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and cyclization of)

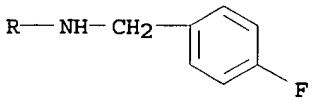
IT **83425-16-5P 83425-17-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and ethylcarboxylation of)

IT **83425-12-1P 83425-14-3P** 92311-28-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and hydrolysis of)

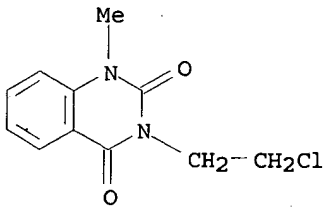
IT **83425-10-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and hydrolysis or nitration of)

L177 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1986:68856 Document No. 104:68856 Bicyclic heterocyclyl containing N-(bicyclic heterocyclyl)-4-piperidinamines. Janssens, Frans Eduard; Torremans, Joseph Leo Ghislanus; Hens, Jozef Francis; Van Offenwert, Theophilus Theresia J. M. (Janssen Pharmaceutica N. V., Belg.). Eur. Pat. Appl. EP 144101 A2 19850612, 106 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1984-201611 19841107. PRIORITY: US 1983-556742 19831130; US 1984-660608 19841012.
GI For diagram(s), see printed CA Issue.
AB The title compds. [I; R = H, cycloalkyl, pyridinyl, pyrazinyl, alkyl-(un)substituted furanyl, thiazolyl, imidazolyl, halo-(un)substituted thienyl, (un)substituted alkyl, Ph; R1 = H, alkyl, cycloalkyl, alkanoyl, alkoxycarbonyl, (un)substituted phenylalkyl; R2 = H, alkyl; R3 = alkyl, pyrrolidinyl, piperidinyl, homopiperonyl, each substituted by a group containing a bicyclic heterocyclic moiety; X = atoms required to complete an (un)substituted C6H6 or pyridine ring] (>150 in all) were prepared Thus, 1-[(4-fluorophenyl)methyl]-N-(4-piperidinyl)-1H-benzimidazol-2-amine was alkylated by heating at 70° with 6-(2-bromoethyl)-3,7-dimethyl-5H-thiazolo[3,2-a]pyrimidin-5-one-HBr in DMF containing Na2CO3 to give 62.8% II. II had antihistaminic activity in rats, counteracting the lethality of compound 48/80 with an ED50 of 0.31 mg/kg s.c. or orally, and inhibiting gastric lesions caused by the same agent with an ED50 of 0.63 mg/kg orally.
IT **99138-99-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)
RN 99138-99-5 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[[[2-[[(4-fluorophenyl)methyl]amino]-5-methylphenyl]amino]thioxomethyl]amino]-, ethyl ester (9CI) (CA INDEX NAME)



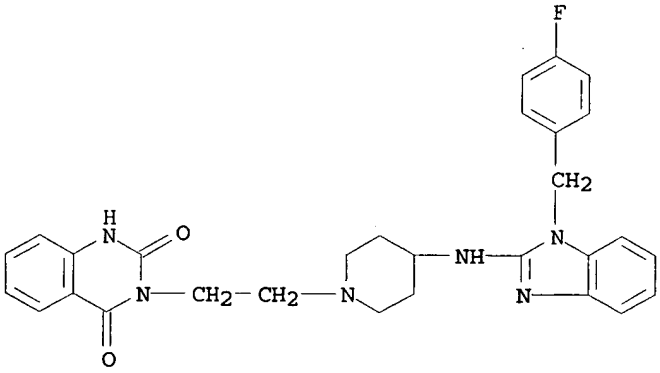


IT **99158-53-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and aminolysis of, by piperidine derivative)
RN 99158-53-9 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-(2-chloroethyl)-1-methyl- (9CI) (CA INDEX NAME)

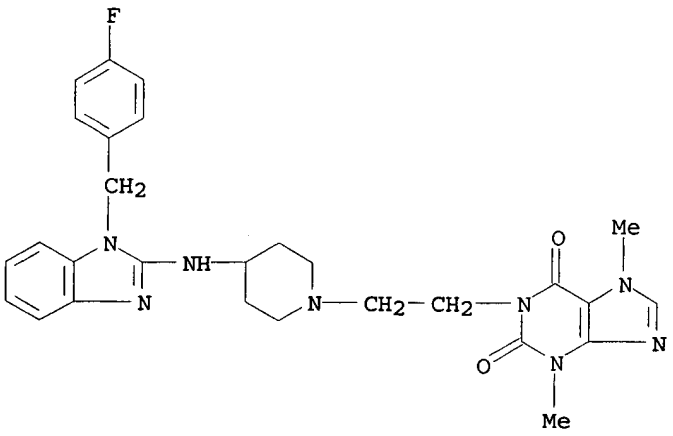


IT **99156-63-5P 99156-67-9P 99156-70-4P**
99156-71-5P 99156-72-6P 99156-87-3P
99156-88-4P 99156-89-5P 99156-92-0P
99156-93-1P 99156-95-3P 99156-96-4P
99156-97-5P 99156-98-6P 99156-99-7P
99157-00-3P 99157-01-4P 99157-02-5P
99157-05-8P 99157-08-1P 99157-09-2P
99157-10-5P 99157-48-9P 99157-49-0P
99157-88-7P 99157-89-8P 99157-90-1P
99157-91-2P 99157-92-3P 99157-98-9P
99195-10-5P 99195-19-4P 99195-21-8P
99436-25-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antihistaminic activity of)

RN 99156-63-5 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

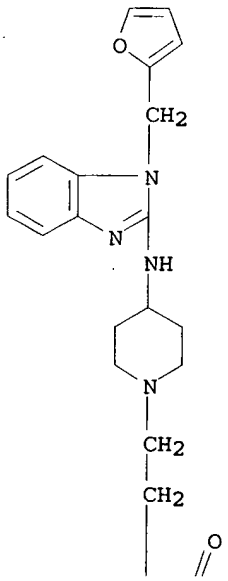


RN 99156-67-9 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)

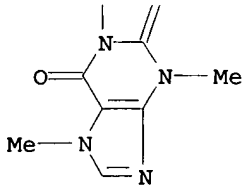


RN 99156-70-4 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)

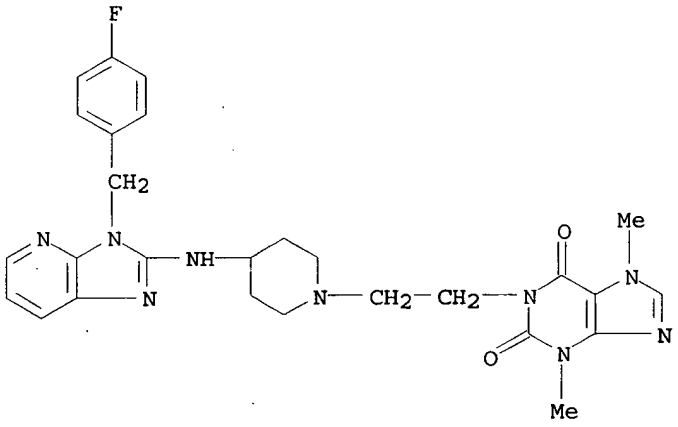
PAGE 1-A



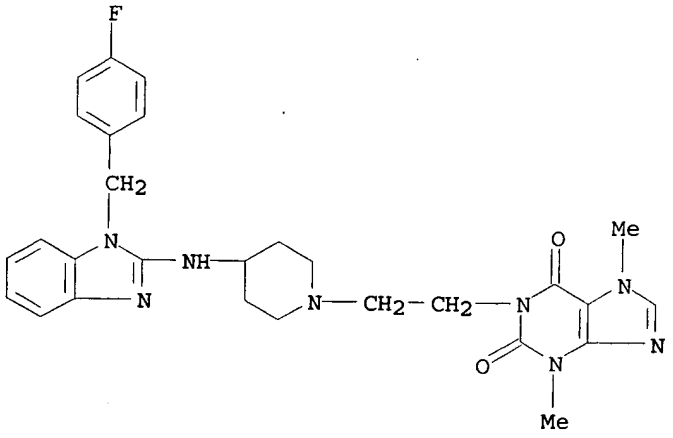
PAGE 2-A



RN 99156-71-5 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-3,7-dimethyl- (9CI) (CA INDEX NAME)

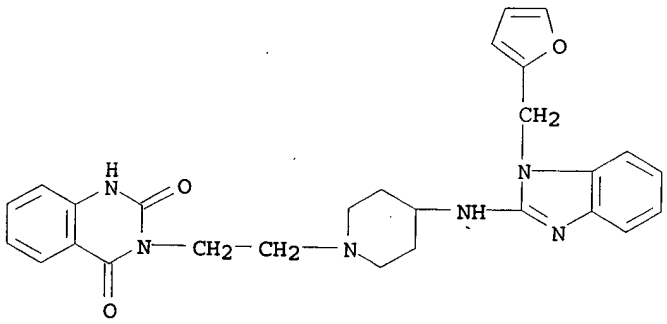


RN 99156-72-6 HCAPLUS
CN 1H-Purine-2,6-dione, 1-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-3,7-dimethyl-, dihydrochloride (9CI) (CA INDEX NAME)

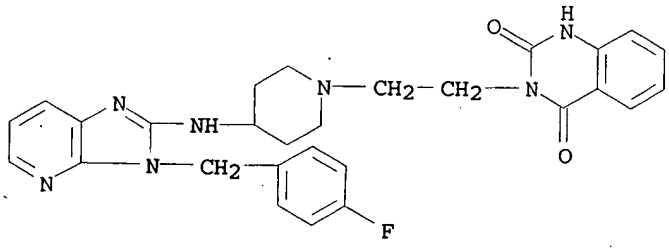


●2 HCl

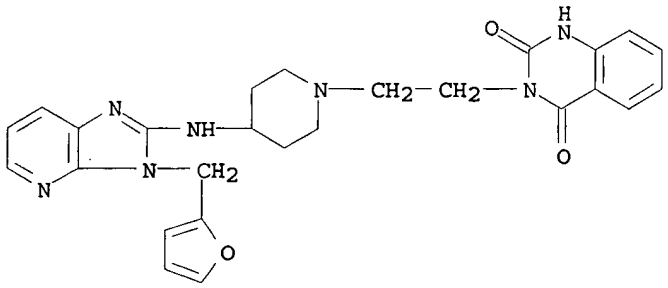
RN 99156-87-3 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



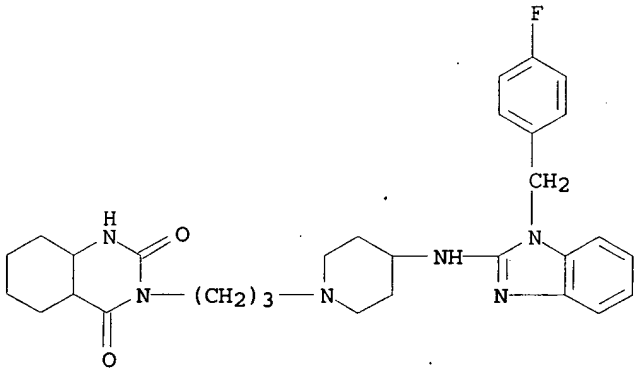
RN 99156-88-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



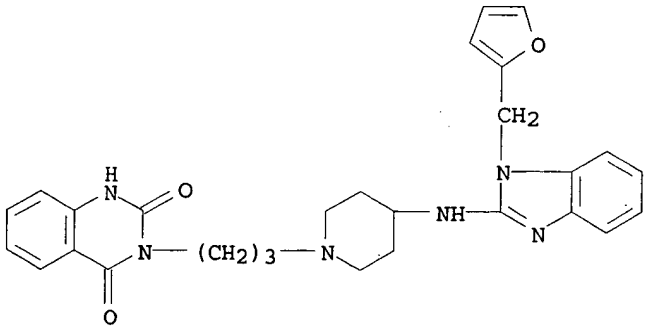
RN 99156-89-5 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-(2-furanylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



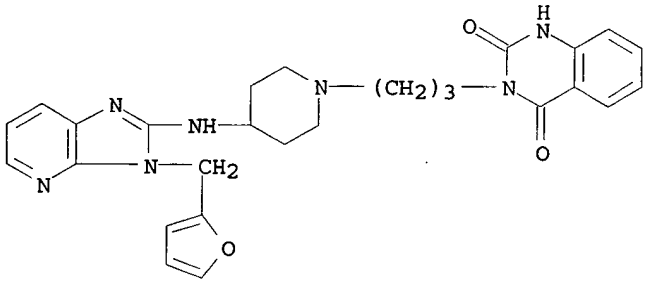
RN 99156-92-0 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[3-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]propyl]hexahydro- (9CI) (CA INDEX NAME)



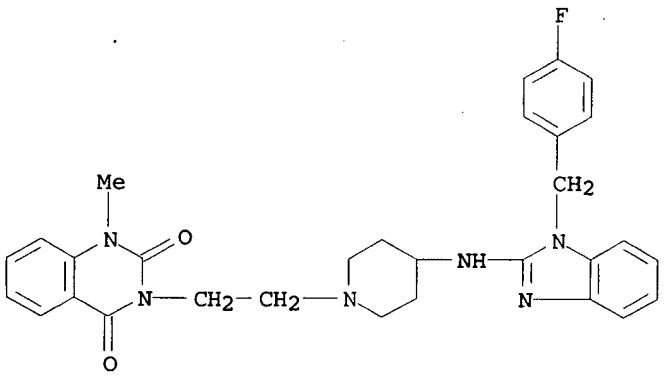
RN 99156-93-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[3-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



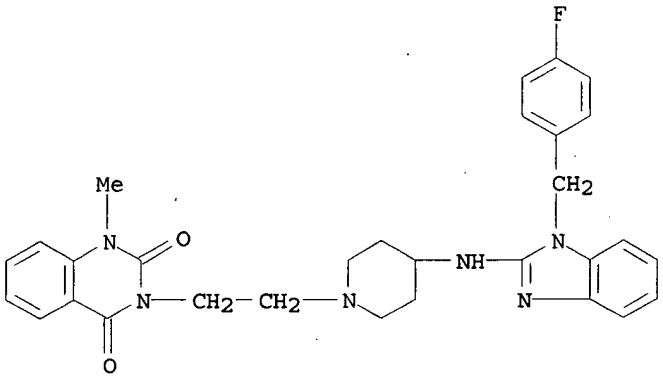
RN 99156-95-3 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[3-[4-[[3-(2-furanylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)



RN 99156-96-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-1-methyl- (9CI) (CA INDEX NAME)

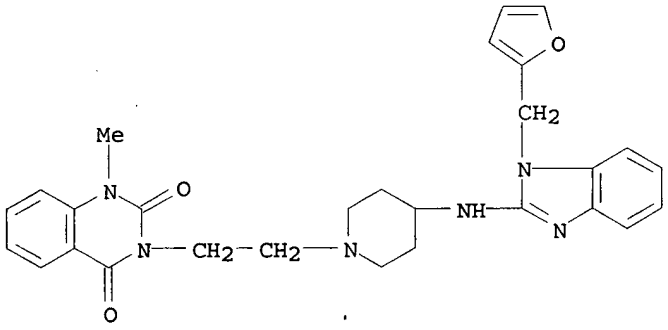


RN 99156-97-5 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-1-methyl-, dihydrochloride (9CI) (CA INDEX NAME)

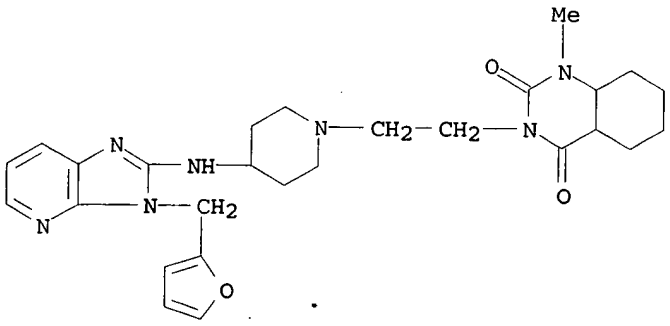


●2 HCl

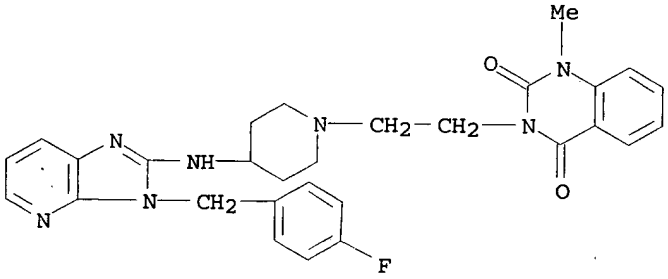
RN 99156-98-6 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-1-methyl- (9CI) (CA INDEX NAME)



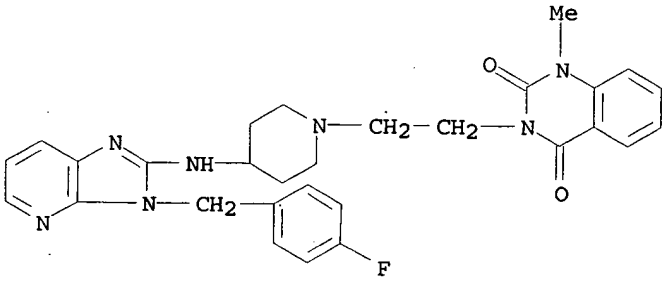
RN 99156-99-7 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-(2-furanylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]hexahydro-1-methyl- (9CI) (CA INDEX NAME)



RN 99157-00-3 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-1-methyl- (9CI) (CA INDEX NAME)

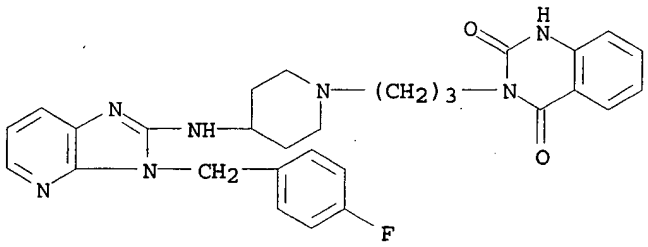


RN 99157-01-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-1-methyl-, dihydrochloride (9CI) (CA INDEX NAME)



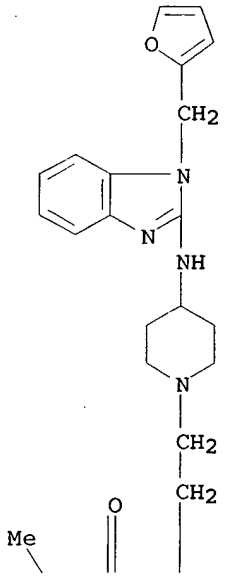
●2 HCl

RN 99157-02-5 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[3-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]propyl]- (9CI) (CA INDEX NAME)

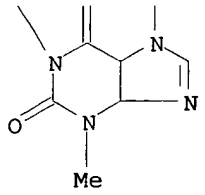


RN 99157-05-8 HCAPLUS
CN 1H-Purine-2,6-dione, 7-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

PAGE 1-A



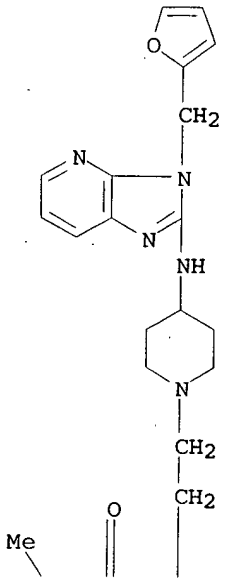
PAGE 2-A



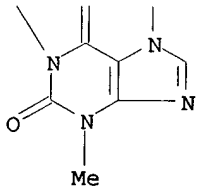
RN 99157-08-1 HCAPLUS
CN 1H-Purine-2,6-dione, 7-[2-[4-[[3-(2-furanylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-1,3-

dimethyl- (9CI) (CA INDEX NAME)

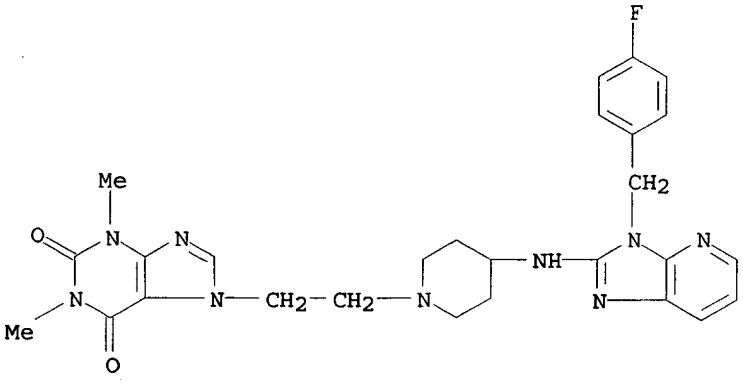
PAGE 1-A



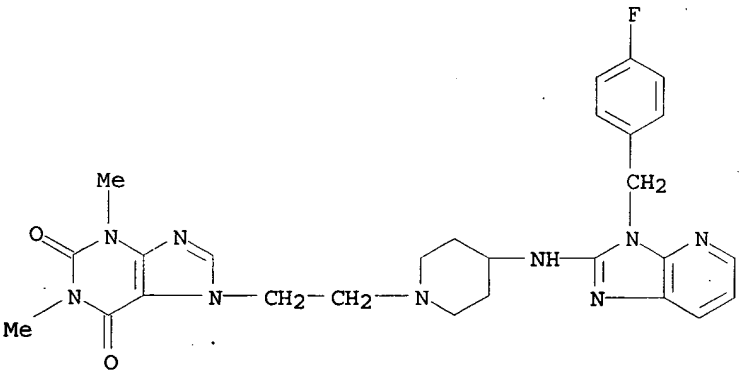
PAGE 2-A



RN 99157-09-2 HCAPLUS
CN 1H-Purine-2,6-dione, 7-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

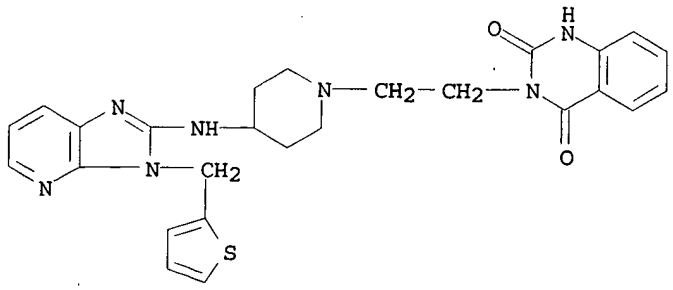


RN 99157-10-5 HCAPLUS
CN 1H-Purine-2,6-dione, 7-[2-[4-[[3-[(4-fluorophenyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-1,3-dimethyl-, dihydrobromide (9CI) (CA INDEX NAME)

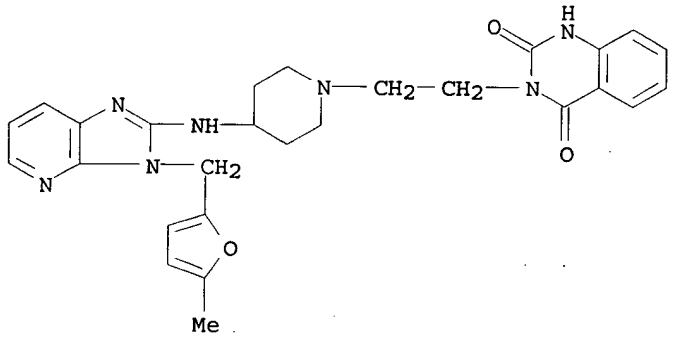


●2 HBr

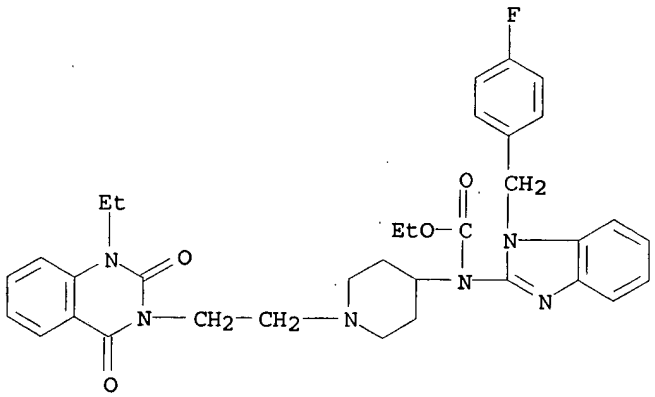
RN 99157-48-9 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-(2-thienylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 99157-49-0 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-[(5-methyl-2-furanyl)methyl]-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

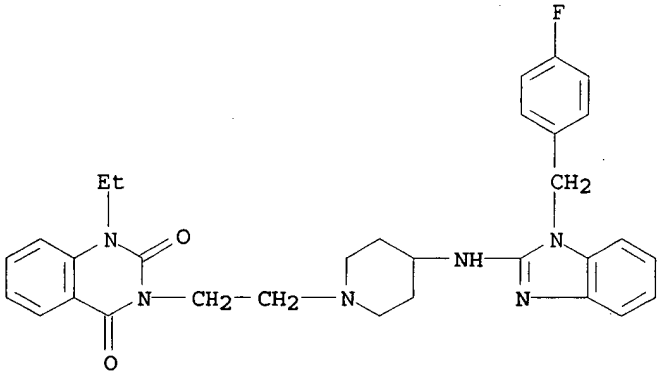


RN 99157-88-7 HCAPLUS
CN Carbamic acid, [1-[2-(1-ethyl-1,4-dihydro-2,4-dioxo-3(2H)-quinazolinyl)ethyl]-4-piperidinyl][1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]-, ethyl ester (9CI) (CA INDEX NAME)



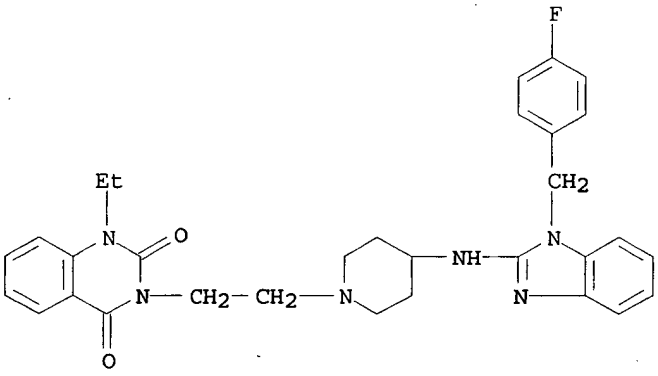
RN 99157-89-8 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 1-ethyl-3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-

piperidinyl]ethyl]-, dihydrochloride (9CI) (CA INDEX NAME)

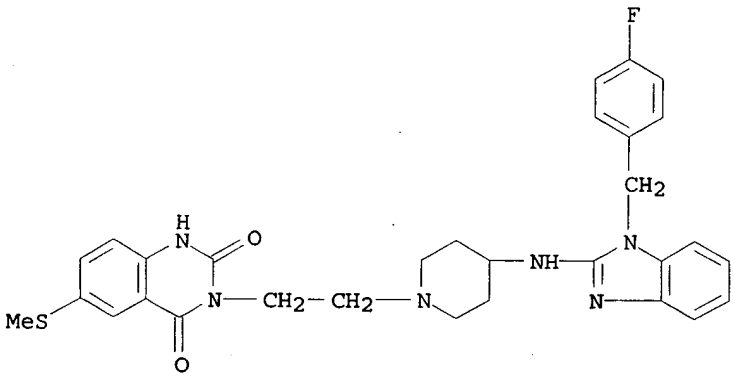


●2 HCl

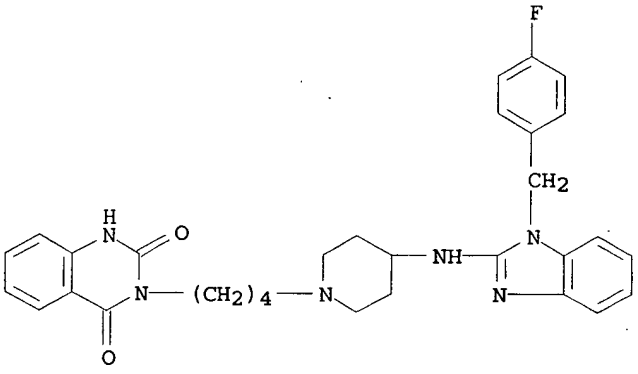
RN 99157-90-1 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 1-ethyl-3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



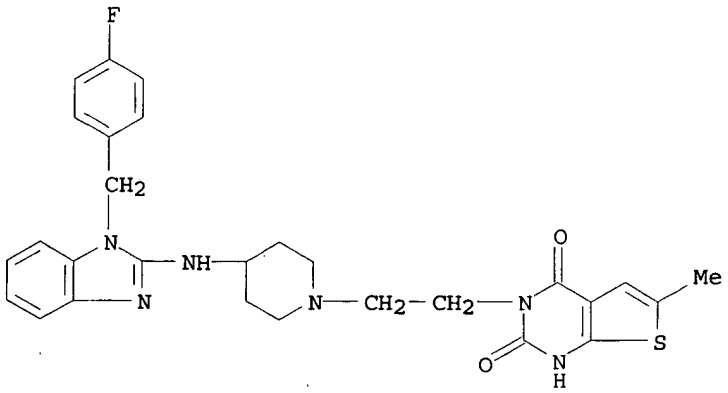
RN 99157-91-2 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-6-(methylthio)- (9CI) (CA INDEX NAME)



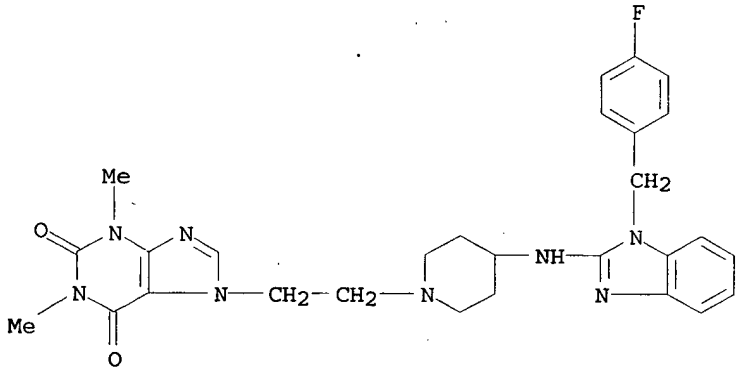
RN 99157-92-3 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[4-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]butyl]- (9CI) (CA INDEX NAME)



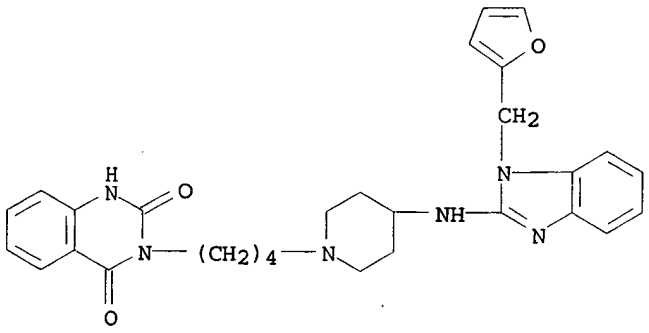
RN 99157-98-9 HCAPLUS
CN Thieno[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-6-methyl- (9CI) (CA INDEX NAME)



RN 99195-10-5 HCAPLUS
CN 1H-Purine-2,6-dione, 7-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-3,7-dihydro-1,3-dimethyl- (9CI) (CA INDEX NAME)

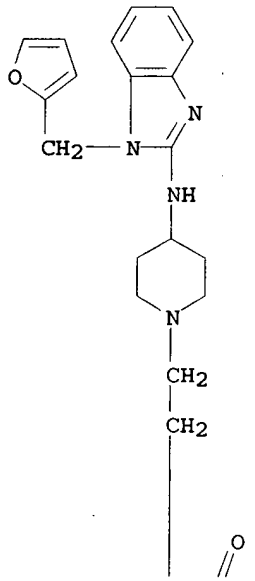


RN 99195-19-4 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[4-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]butyl]- (9CI) (CA INDEX NAME)

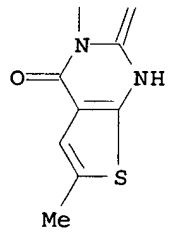


RN 99195-21-8 HCAPLUS
CN Thieno[2,3-d]pyrimidine-2,4(1H,3H)-dione, 3-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-6-methyl- (9CI) (CA INDEX NAME)

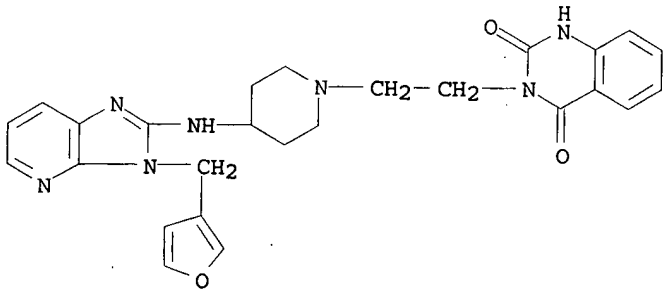
PAGE 1-A



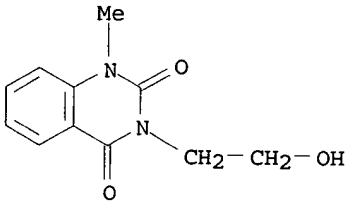
PAGE 2-A



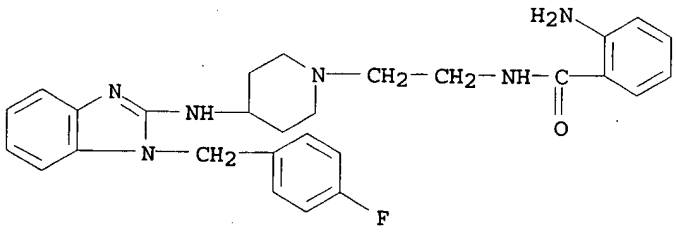
RN 99436-25-6 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-[2-[4-[[3-(3-furanylmethyl)-3H-imidazo[4,5-b]pyridin-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



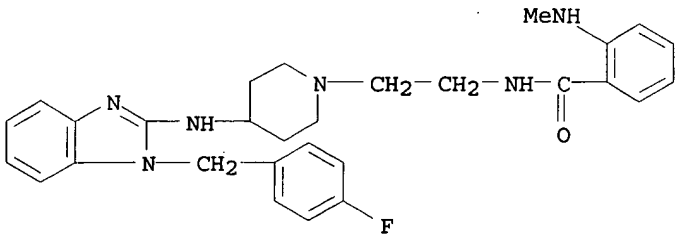
IT **99158-52-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and chlorination of)
RN 99158-52-8 HCAPLUS
CN 2,4(1H,3H)-Quinazolinedione, 3-(2-hydroxyethyl)-1-methyl- (9CI) (CA INDEX NAME)



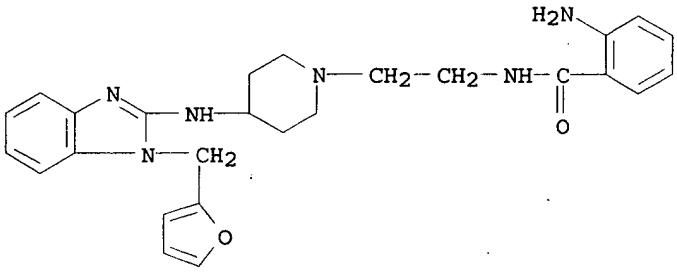
IT **99158-38-0P 99158-40-4P 99158-41-5P**
99158-42-6P 99158-43-7P 99158-44-8P
99158-45-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and cyclocondensation reaction of)
RN 99158-38-0 HCAPLUS
CN Benzamide, 2-amino-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



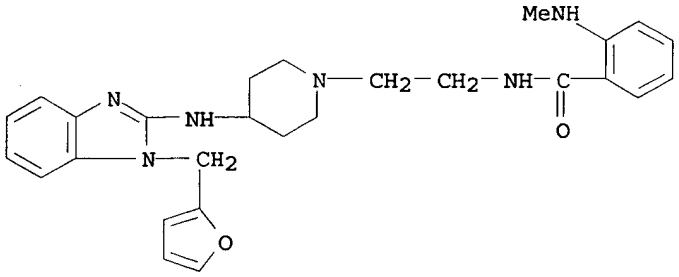
RN 99158-40-4 HCAPLUS
CN Benzamide, N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-2-(methylamino)- (9CI) (CA INDEX NAME)



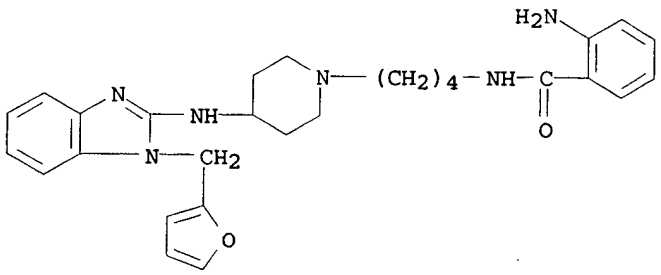
RN 99158-41-5 HCAPLUS
CN Benzamide, 2-amino-N-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



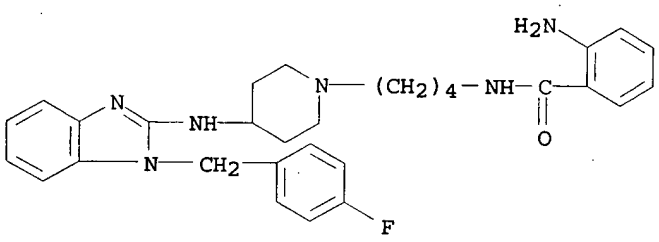
RN 99158-42-6 HCAPLUS
CN Benzamide, N-[2-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-2-(methylamino)- (9CI) (CA INDEX NAME)



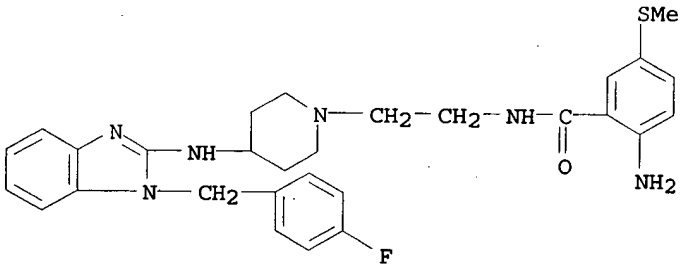
RN 99158-43-7 HCAPLUS
CN Benzamide, 2-amino-N-[4-[4-[[1-(2-furanylmethyl)-1H-benzimidazol-2-yl]amino]-1-piperidinyl]butyl]- (9CI) (CA INDEX NAME)



RN 99158-44-8 HCAPLUS
CN Benzamide, 2-amino-N-[4-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]butyl]- (9CI) (CA INDEX NAME)



RN 99158-45-9 HCAPLUS
CN Benzamide, 2-amino-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-5-(methylthio)- (9CI) (CA INDEX NAME)



IC ICM C07D401-12
ICS C07D401-14; C07D405-12; C07D405-14; C07D409-12; C07D409-14; C07D417-14; C07D471-04; C07D487-04; C07D513-04; C07D519-00
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63
IT 54-96-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with (isothiocyanatoethyl)piperidine derivs.)
IT 75-15-0, reactions 2719-30-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with aminopiperidinecarboxylate

derivative)
IT 58859-46-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with carbon disulfide)
IT 90539-29-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with isothiocyanatonitrobenzene)
IT 90518-36-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with isothiocyanatopiperidine derivative)
IT 90518-39-1 90518-40-4 90518-44-8 90518-45-9 99138-96-2
99138-98-4 **99138-99-5** 99158-24-4 99158-63-1
99158-64-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclization of)
IT 99158-49-3P 99158-50-6P **99158-53-9P** 99158-54-0P
99158-57-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and aminolysis of, by piperidine derivative)
IT 99156-62-4P **99156-63-5P** 99156-64-6P 99156-65-7P
99156-66-8P **99156-67-9P** 99156-68-0P 99156-69-1P
99156-70-4P 99156-71-5P 99156-72-6P
99156-73-7P 99156-74-8P 99156-75-9P 99156-76-0P
99156-77-1P 99156-78-2P 99156-79-3P 99156-80-6P
99156-81-7P 99156-82-8P 99156-83-9P 99156-84-0P
99156-85-1P 99156-86-2P **99156-87-3P**
99156-88-4P 99156-89-5P 99156-90-8P
99156-91-9P **99156-92-0P 99156-93-1P**
99156-94-2P **99156-95-3P 99156-96-4P**
99156-97-5P 99156-98-6P 99156-99-7P
99157-00-3P 99157-01-4P 99157-02-5P
99157-03-6P 99157-04-7P **99157-05-8P** 99157-06-9P
99157-07-0P **99157-08-1P 99157-09-2P**
99157-10-5P 99157-11-6P 99157-12-7P 99157-13-8P
99157-14-9P 99157-15-0P 99157-16-1P 99157-17-2P
99157-18-3P 99157-19-4P 99157-20-7P 99157-21-8P
99157-22-9P 99157-23-0P 99157-24-1P 99157-25-2P
99157-26-3P 99157-27-4P 99157-28-5P 99157-29-6P
99157-30-9P 99157-31-0P 99157-32-1P 99157-33-2P
99157-34-3P 99157-35-4P 99157-36-5P 99157-37-6P
99157-38-7P 99157-39-8P 99157-40-1P 99157-41-2P
99157-42-3P 99157-43-4P 99157-44-5P 99157-45-6P
99157-46-7P 99157-47-8P **99157-48-9P**
99157-49-0P 99157-50-3P 99157-51-4P 99157-52-5P
99157-53-6P 99157-54-7P 99157-55-8P 99157-56-9P
99157-57-0P 99157-58-1P 99157-59-2P 99157-60-5P
99157-61-6P 99157-62-7P 99157-63-8P 99157-64-9P
99157-65-0P 99157-66-1P 99157-67-2P 99157-68-3P
99157-69-4P 99157-70-7P 99157-71-8P 99157-72-9P
99157-73-0P 99157-74-1P 99157-75-2P 99157-76-3P
99157-77-4P 99157-78-5P 99157-79-6P 99157-80-9P
99157-81-0P 99157-82-1P 99157-83-2P 99157-84-3P
99157-85-4P 99157-86-5P 99157-87-6P **99157-88-7P**
99157-89-8P 99157-90-1P 99157-91-2P
99157-92-3P 99157-93-4P 99157-94-5P 99157-95-6P
99157-96-7P 99157-97-8P **99157-98-9P** 99157-99-0P
99158-00-6P 99158-01-7P 99158-02-8P 99158-03-9P
99158-04-0P 99158-05-1P 99158-06-2P 99158-07-3P
99158-08-4P 99158-09-5P 99158-10-8P 99158-11-9P
99158-12-0P 99158-13-1P 99158-14-2P 99158-15-3P

99158-16-4P 99158-17-5P 99158-18-6P **99195-10-5P**
99195-11-6P 99195-12-7P 99195-13-8P 99195-14-9P
99195-15-0P 99195-16-1P 99195-17-2P 99195-18-3P
99195-19-4P 99195-20-7P **99195-21-8P**
99195-22-9P 99228-02-1P 99228-03-2P **99436-25-6P**
99436-26-7P 99436-27-8P 99455-64-8P 101637-70-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and antihistaminic activity of)

IT **99158-52-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and chlorination of)

IT 73733-70-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** of, with benzene- and pyridinediamines)

IT 73736-79-5P 99151-17-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and **condensation** of, with heterocyclic amines)

IT 90518-32-4P 90518-33-5P 99138-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** of, with isothiocyanatopiperidine derivative)

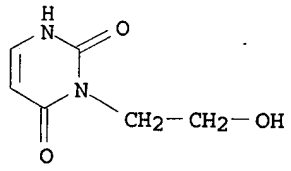
IT 99158-30-2P 99158-36-8P 99158-37-9P **99158-38-0P**
99158-40-4P 99158-41-5P 99158-42-6P
99158-43-7P 99158-44-8P 99158-45-9P
99158-46-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and cyclocondensation reaction of)

L177 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1986:50874 Document No. 104:50874 N-(4-Piperidinyl) bicyclic **condensed** 2-imidazolamine derivatives. Janssens, Frans Eduard; Torremans, Joseph Leo Ghislanus; Hens, Jozef Francis; Van Offenwert, Theophilus Theresia Joannes (Janssen Pharmaceutica N. V., Belg.). Eur. Pat. Appl. EP 151824 A2 19850821, 68 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1984-201812 19841206. PRIORITY: US 1984-569115 19840109; US 1984-660670 19841015.

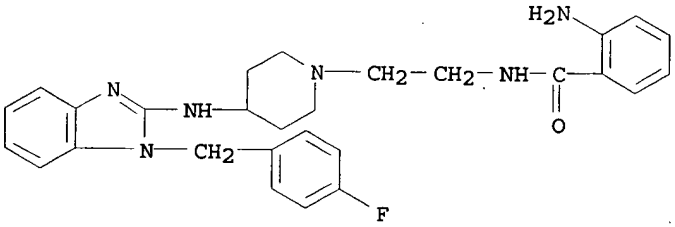
GI For diagram(s), see printed CA Issue.

AB The title compds. [I; A = (un)substituted C6H6 or pyridine ring; R = H, alkyl; R1 = H, alkyl, cycloalkyl, aralkyl, (alkyl)furanyl, (alkyl)imidazolyl, (halo)thienyl, pyridinyl, pyrazinyl, thiazolyl, (un)substituted Ph; R2 = H, alkyl, cycloalkyl, aralkyl, alkanoyl, alkoxycarbonyl; R3 = R4Z, (un)substituted saturated heterocyclyl; R4 = acyl, acylamino, acyloxy, acylthio, (un)substituted Ph, aryl, etc.; Z = alkylene] were prepared Thus 3-chloro-2-nitropyridine was aminolyzed with 4-FC6H4CH2NH2 and the product hydrogenated to give N3-[(4-fluorophenyl)methyl]-2,3-pyridinediamine. This was **condensed** with Et 4-isothiocyanatopiperidinecarboxylate to give pyridinylthiourea derivative II which was cyclized by heating in EtOH with HgO and S to give imidazopyridinamine III (R5 = CO2Et). The latter was decarboxylated by heating in 48% aqueous HBr to give III.2HBr (R5 = H) which was alkylated with a p-methoxyphenethyl halide to give III (R5 = 4-MeOC6H4CH2CH2) (IV). I are antihistaminics. In mice IV inhibited compound 48/80-induced lethality with an ED50 of 0.08 mg/kg s.c. or orally.

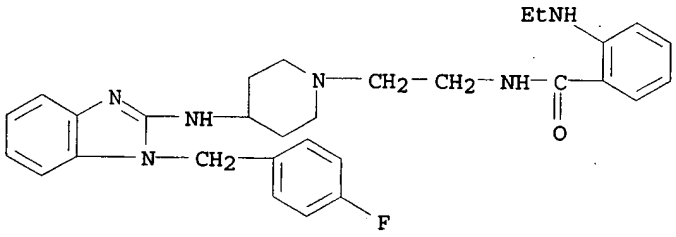
IT **700-03-8**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(chlorination of)
RN 700-03-8 HCAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3-(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



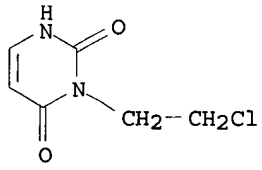
IT **99158-38-0P 99780-70-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and acetylation of)
RN 99158-38-0 HCAPLUS
CN Benzamide, 2-amino-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 99780-70-8 HCAPLUS
CN Benzamide, 2-(ethylamino)-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)

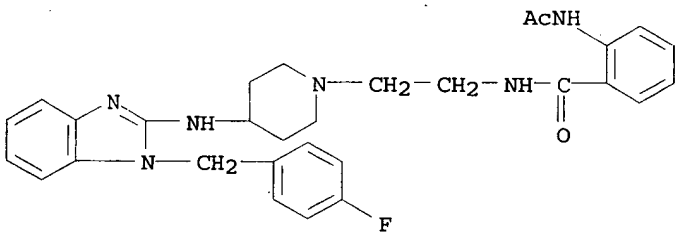


IT **99780-71-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and alkylation by, of piperidine derivs.)
RN 99780-71-9 HCAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3-(2-chloroethyl)- (9CI) (CA INDEX NAME)

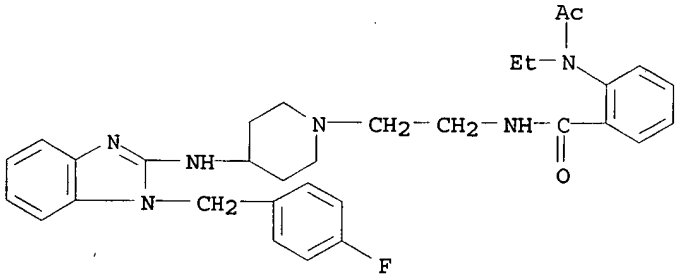


IT **99780-47-9P 99780-48-0P 99780-49-1P**
99780-50-4P 99780-51-5P 99780-52-6P
99780-53-7P 99780-54-8P 99780-55-9P
99780-62-8P 99796-66-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antihistaminic)

RN 99780-47-9 HCAPLUS
CN Benzamide, 2-(acetylamino)-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



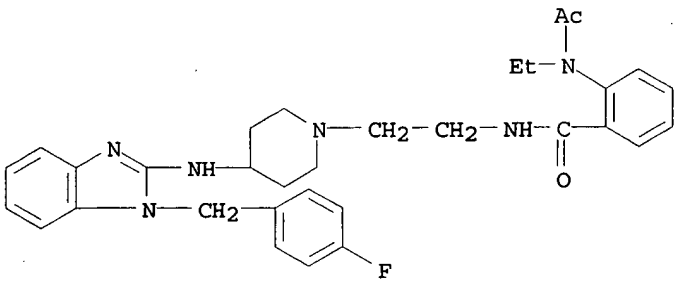
RN 99780-48-0 HCAPLUS
CN Benzamide, 2-(acetylethylamino)-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



RN 99780-49-1 HCAPLUS
CN Benzamide, 2-(acetylethylamino)-N-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]-, (2E)-2-butenedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

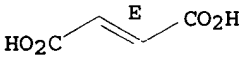
CRN 99780-48-0
CMF C32 H37 F N6 O2



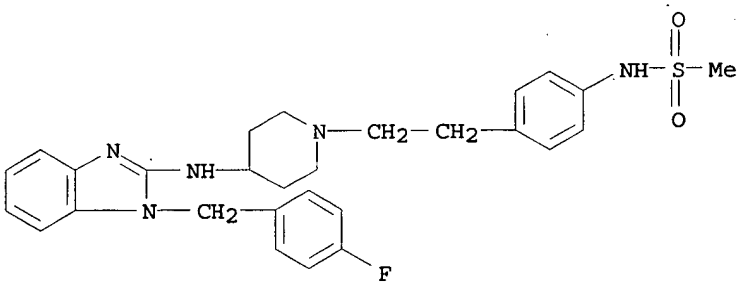
CM 2

CRN 110-17-8
CMF C4 H4 O4

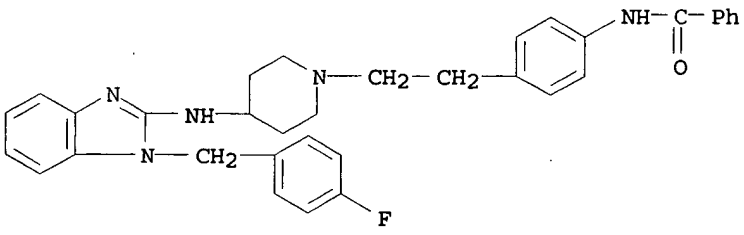
Double bond geometry as shown.



RN 99780-50-4 HCAPLUS
CN Methanesulfonamide, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]- (9CI) (CA INDEX NAME)

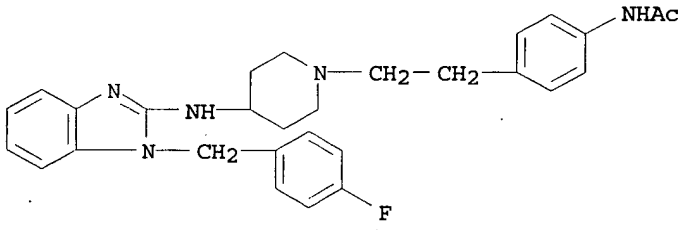


RN 99780-51-5 HCAPLUS
CN Benzamide, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]-, monohydrochloride (9CI) (CA INDEX NAME)

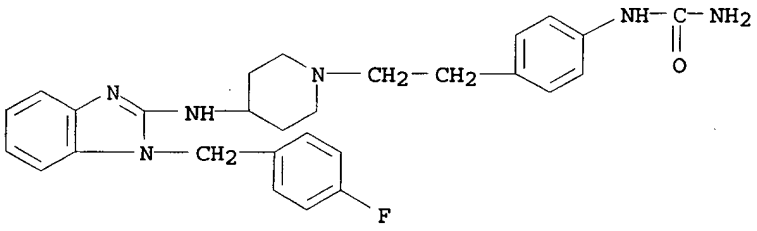


● HCl

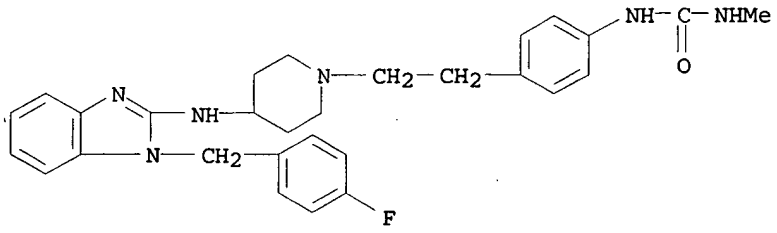
RN 99780-52-6 HCAPLUS
CN Acetamide, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]- (9CI) (CA INDEX NAME)



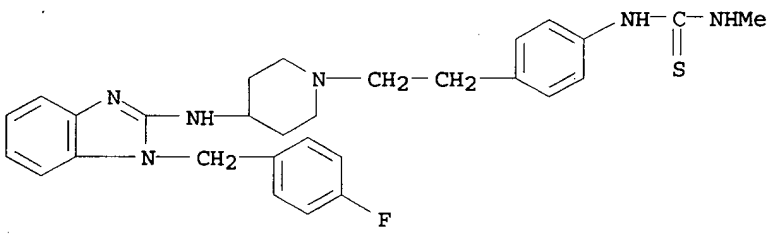
RN 99780-53-7 HCAPLUS
CN Urea, [4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]- (9CI) (CA INDEX NAME)



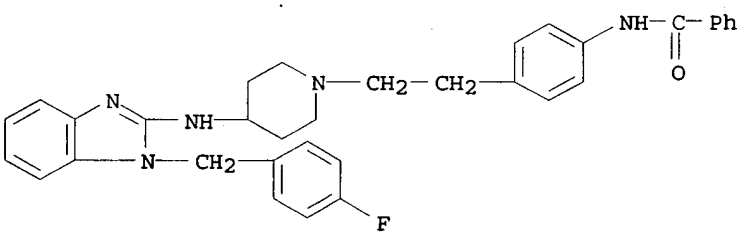
RN 99780-54-8 HCAPLUS
CN Urea, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]-N'-methyl- (9CI) (CA INDEX NAME)



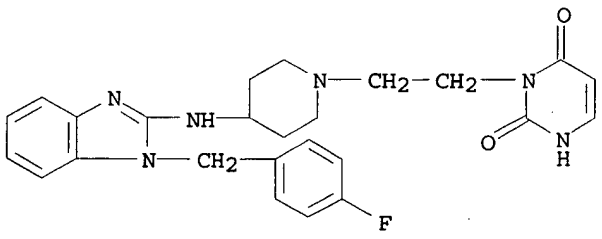
RN 99780-55-9 HCAPLUS
CN Thiourea, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]-N'-methyl- (9CI) (CA INDEX NAME)



RN 99780-62-8 HCAPLUS
CN Benzamide, N-[4-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]phenyl]- (9CI) (CA INDEX NAME)



RN 99796-66-4 HCAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3-[2-[4-[[1-[(4-fluorophenyl)methyl]-1H-benzimidazol-2-yl]amino]-1-piperidinyl]ethyl]- (9CI) (CA INDEX NAME)



IC ICM C07D471-04
ICS C07D401-12; C07D235-30; A61K031-445
CC 28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63
IT **700-03-8**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(chlorination of)
IT 70-25-7 6160-65-2 55114-97-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with (aminoethyl)piperidine derivs.)
IT 110-89-4, reactions 156-87-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with (isothiocyanatoethyl)piperidine derivs.)
IT 590-28-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with aniline derivative)
IT 39204-47-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with benzimidazolamine derivative)
IT 140-75-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with chloropyridines)
IT 50-00-0, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with furanmethanol and piperidine derivative)
IT 60-23-1 1722-12-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with furanmethanol derivative)
IT 110-75-8 18217-00-0 20972-54-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with piperidine derivs.)
IT 75970-64-8 75970-99-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** reactions of)
IT **99158-38-0P 99780-70-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and acetylation of)
IT **99780-71-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and alkylation by, of piperidine derivs.)
IT 73736-79-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and **condensation** of, with amines)
IT 73733-70-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** of, with pyridinamines)
IT 90518-32-4P 90518-33-5P 90518-36-8P 99138-91-7P
99138-92-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and **condensation** of, with thiocyanatopiperidine derivative)
IT 90518-66-4P 90518-67-5P 90518-71-1P 90518-72-2P
90518-73-3P 90518-74-4P 90518-75-5P 90518-76-6P
90518-77-7P 90518-81-3P 90518-82-4P 90519-13-4P
90519-18-9P 90519-37-2P 90539-30-3P 99139-10-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP

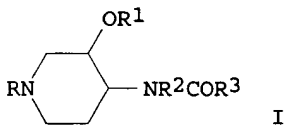
(Preparation); RACT (Reactant or reagent)
(preparation and **condensation** reactions of)

IT 99158-37-9P 99779-98-3P 99779-99-4P 99780-00-4P
99780-01-5P 99780-02-6P 99780-03-7P 99780-04-8P
99780-05-9P 99780-06-0P 99780-07-1P 99780-08-2P
99780-09-3P 99780-10-6P 99780-11-7P 99780-12-8P
99780-13-9P 99780-14-0P 99780-15-1P 99780-16-2P
99780-17-3P 99780-18-4P 99780-19-5P 99780-20-8P
99780-21-9P 99780-22-0P 99780-23-1P 99780-24-2P
99780-25-3P 99780-26-4P 99780-27-5P 99780-28-6P
99780-29-7P 99780-30-0P 99780-31-1P 99780-32-2P
99780-33-3P 99780-34-4P 99780-35-5P 99780-36-6P
99780-37-7P 99780-38-8P 99780-39-9P 99780-40-2P
99780-41-3P 99780-42-4P 99780-43-5P 99780-44-6P
99780-45-7P 99780-46-8P **99780-47-9P**
99780-48-0P 99780-49-1P 99780-50-4P
99780-51-5P 99780-52-6P 99780-53-7P
99780-54-8P 99780-55-9P 99780-56-0P
99780-57-1P 99780-58-2P 99780-59-3P 99780-60-6P
99780-61-7P **99780-62-8P** 99780-63-9P 99796-65-3P
99796-66-4P 99796-67-5P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as antihistaminic)

IT 29976-53-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(reductive **condensation** of, with piperidine derivative)

L177 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1983:594812 Document No. 99:194812 N-(3-Hydroxy-4-piperidinyl)benzamide derivatives. Van Daele, Georges (Janssen Pharmaceutica N. V., Belg.). Eur. Pat. Appl. EP 76530 A2 19830413, 137 pp. DESIGNATED STATES: R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE. (English). CODEN: EPXXDW. APPLICATION: EP 1982-201080 19820903. PRIORITY: US 1981-307409 19811001; US 1982-403603 19820730.

GI



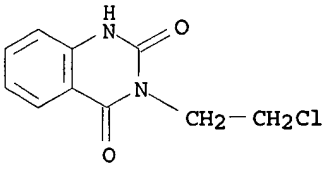
I

AB Piperidinylbenzamides I [R = alkoxycarbonyl, (un)substituted alkyl, cycloalkyl, aralkyl, etc.; R1 = H, alkyl, aralkyl, aminoalkyl, alkylcarbonyl; R2 = H, alkyl; R3 = (un)substituted Ph] (244 compds.) were prepared Thus, cis-I [R = R2 = H, R1 = Me, R3 = 5,4,2-Cl(H2N)(MeO)C6H2] was treated with 4-FC6H4O(CH2)3Cl to give 42.8% cis-I [R = 4-FC6H4O(CH2)3, R1 = Me, R2 = H, R3 = 5,4,2-Cl(H2N)(MeO)C6H2] (II). II had a min. effective concentration of 0.00016 mg/L for stimulation of contraction of isolated guinea pig ileum.

IT **5081-87-8**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(alkylation by, of piperidine derivs.)

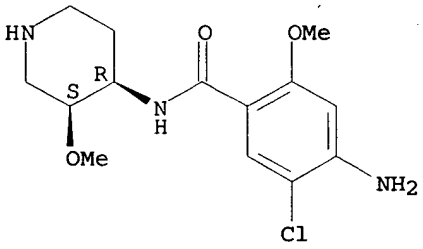
RN 5081-87-8 HCAPLUS

CN 2,4(1H,3H)-Quinazolinedione, 3-(2-chloroethyl)- (7CI, 8CI, 9CI) (CA INDEX NAME)



IT **83863-69-8**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(alkylation of)
RN 83863-69-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[(3R,4S)-3-methoxy-4-piperidinyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

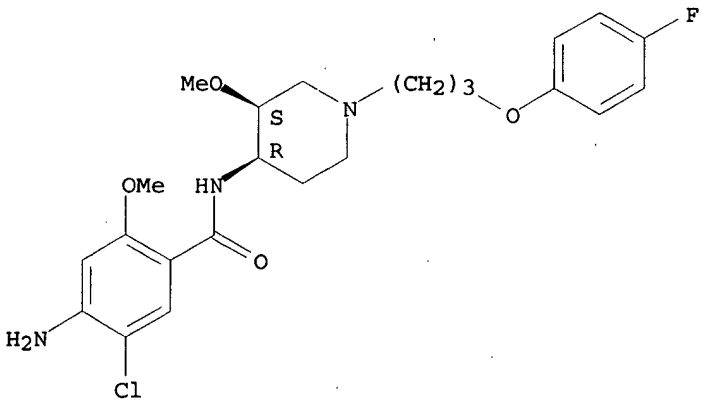


IT **81098-60-4P 83863-69-8P 83863-70-1P**
86718-44-7P 86718-45-8P 86718-48-1P
86718-50-5P 86718-51-6P 86718-52-7P
86718-54-9P 86718-55-0P 86718-56-1P
86718-57-2P 86718-58-3P 86718-59-4P
86718-60-7P 86718-62-9P 86718-64-1P
86718-65-2P 86718-66-3P 86718-69-6P
86718-70-9P 86718-71-0P 86718-72-1P
86718-73-2P 86718-75-4P 86718-76-5P
86718-89-0P 86718-91-4P 86718-97-0P
86718-98-1P 86718-99-2P 86719-02-0P
86719-04-2P 86719-05-3P 86719-06-4P
86719-07-5P 86719-08-6P 86719-09-7P
86719-10-0P 86719-12-2P 86719-13-3P
86719-14-4P 86719-18-8P 86719-26-8P
86719-27-9P 86719-29-1P 86719-34-8P
86719-36-0P 86719-37-1P 86719-38-2P
86719-39-3P 86719-40-6P 86719-41-7P
86719-42-8P 86719-43-9P 86719-44-0P
86719-45-1P 86719-46-2P 86719-47-3P
86719-48-4P 86719-49-5P 86719-51-9P
86719-52-0P 86719-53-1P 86719-58-6P
86719-59-7P 86719-60-0P 86719-65-5P
86719-66-6P 86719-67-7P 86719-68-8P
86719-69-9P 86719-70-2P 86719-72-4P
86719-73-5P 86719-74-6P 86719-75-7P
86719-76-8P 86719-83-7P 86719-84-8P
86719-85-9P 86719-88-2P 86719-89-3P

86719-90-6P 86719-91-7P 86719-92-8P
86719-93-9P 86719-94-0P 86719-95-1P
86719-96-2P 86719-97-3P 86719-98-4P
86719-99-5P 86720-04-9P 86720-05-0P
86720-06-1P 86720-07-2P 86720-08-3P
86720-09-4P 86720-10-7P 86720-11-8P
86720-12-9P 86720-13-0P 86720-14-1P
86720-15-2P 86720-16-3P 86720-17-4P
86720-18-5P 86720-19-6P 86720-24-3P
86720-25-4P 86720-26-5P 86720-27-6P
86720-28-7P 86720-29-8P 86720-30-1P
86720-39-0P 86720-41-4P 86720-42-5P
86720-43-6P 86720-45-8P 86720-47-0P
86720-48-1P 86720-49-2P 86720-50-5P
86720-51-6P 86720-52-7P 86720-53-8P
86720-54-9P 86720-55-0P 86720-56-1P
86720-57-2P 86720-58-3P 86720-59-4P
86720-60-7P 86720-61-8P 86720-62-9P
86720-63-0P 86720-65-2P 86720-66-3P
86720-67-4P 86720-68-5P 86720-69-6P
86720-70-9P 86720-71-0P 86720-72-1P
86720-73-2P 86720-74-3P 86720-75-4P
86720-76-5P 86720-77-6P 86729-78-4P
86848-63-7P 104466-82-2P 104860-19-7P
104860-57-3P 104860-58-4P 104860-59-5P
104860-60-8P 104860-61-9P 104860-63-1P
104860-64-2P 104860-66-4P 104860-67-5P
104860-68-6P 104860-69-7P 104889-57-8P
104889-60-3P 104889-62-5P 105249-04-5P
105249-07-8P 137472-66-3P 182008-76-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and gastric motility activity of)

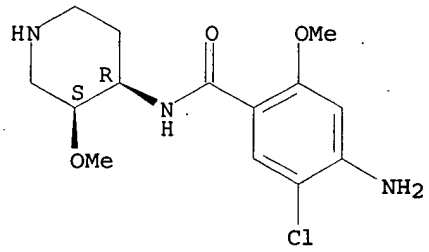
RN 81098-60-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(3R,4S)-3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



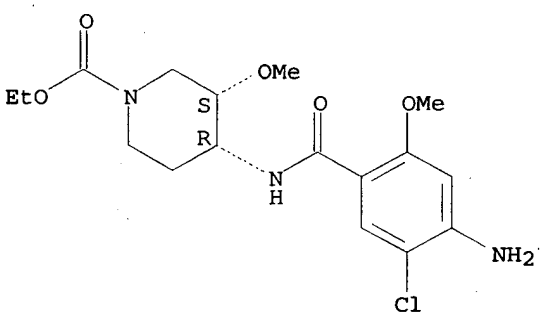
RN 83863-69-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[(3R,4S)-3-methoxy-4-piperidinyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



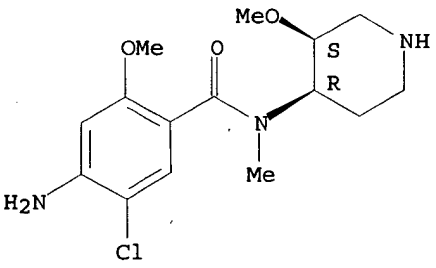
RN 83863-70-1 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-3-methoxy-, ethyl ester, (3R,4S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



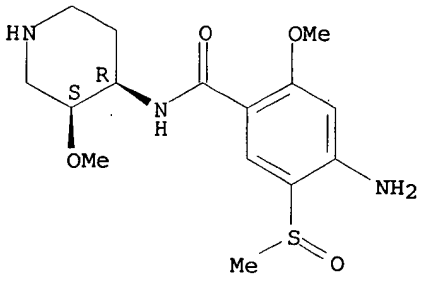
RN 86718-44-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-(3-methoxy-4-piperidinyl)-N-methyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



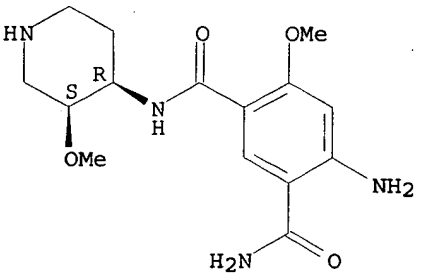
RN 86718-45-8 HCAPLUS
CN Benzamide, 4-amino-2-methoxy-N-(3-methoxy-4-piperidinyl)-5-(methylsulfinyl)-, (3α,4α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



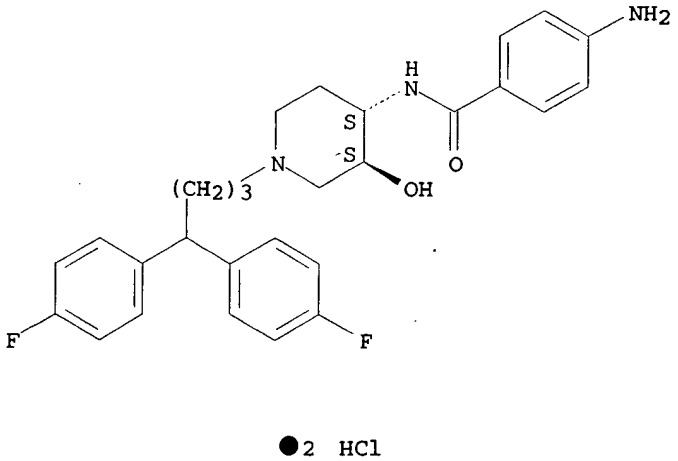
RN 86718-48-1 HCAPLUS
CN 1,3-Benzenedicarboxamide, 4-amino-6-methoxy-N1-(3-methoxy-4-piperidinyl)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86718-50-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-, dihydrochloride, trans- (9CI) (CA INDEX NAME)

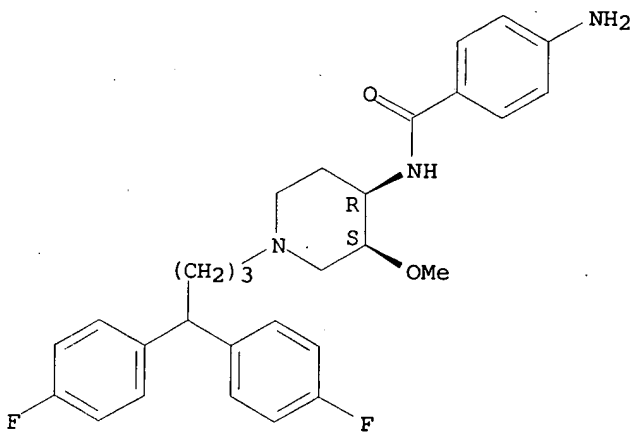
Relative stereochemistry.



●2 HCl

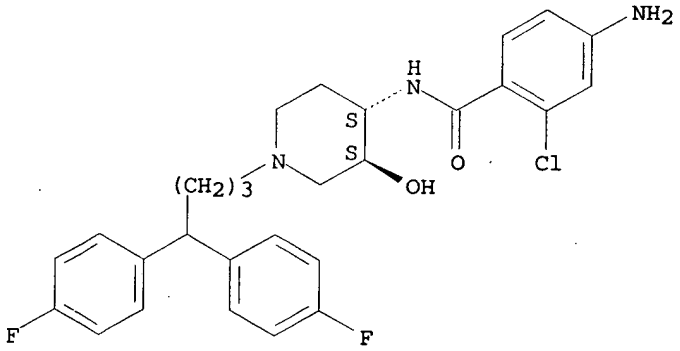
RN 86718-51-6 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86718-52-7 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-2-chloro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

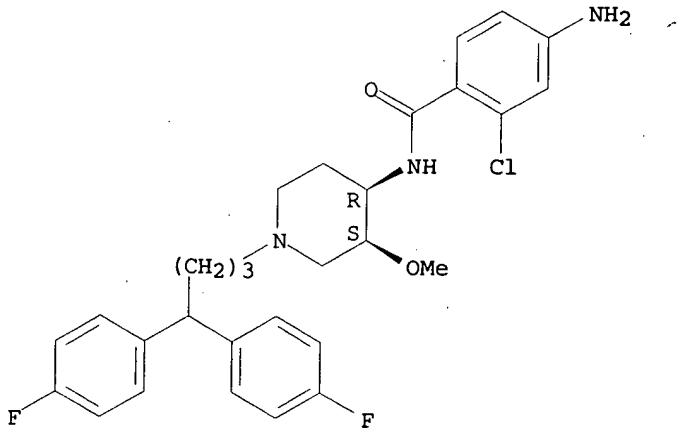


RN 86718-54-9 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-2-chloro-, cis-, ethanedioate (1:2) (9CI) (CA INDEX NAME)

CM 1

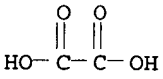
CRN 86718-53-8
CMF C29 H32 Cl F2 N3 O2

Relative stereochemistry.



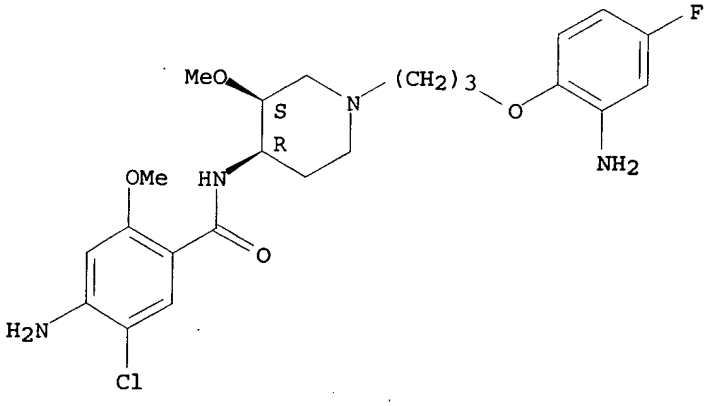
CM 2

CRN 144-62-7
CMF C2 H2 O4



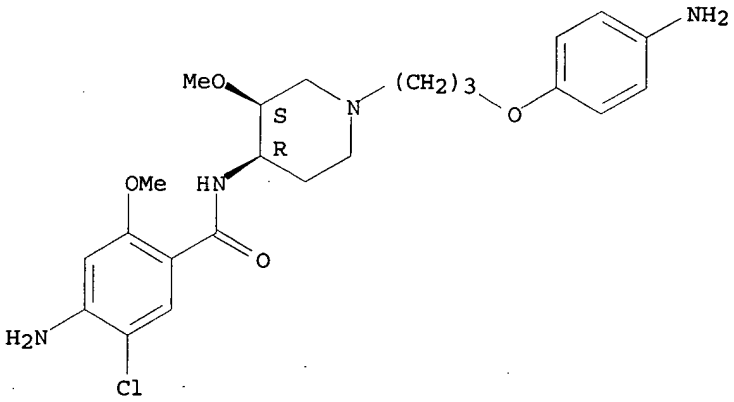
RN 86718-55-0 HCAPLUS
CN Benzamide, 4-amino-N-[1-[3-(2-amino-4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



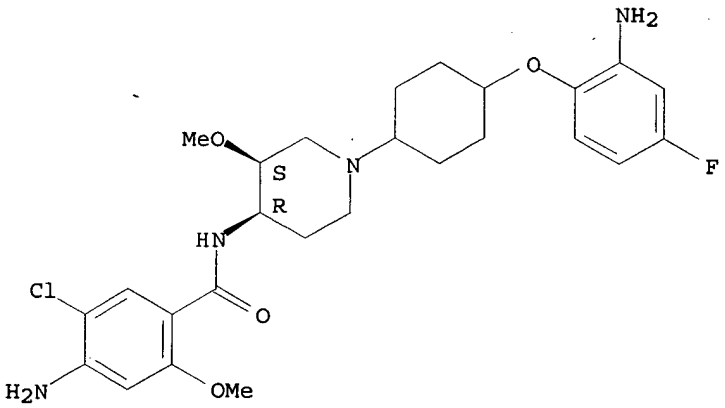
RN 86718-56-1 HCAPLUS
CN Benzamide, 4-amino-N-[1-[3-(4-aminophenoxy)propyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



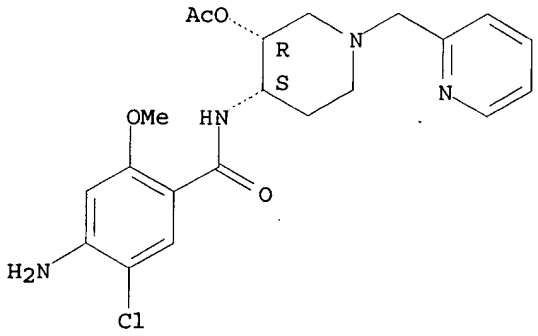
RN 86718-57-2 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4-(2-amino-4-fluorophenoxy)cyclohexyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



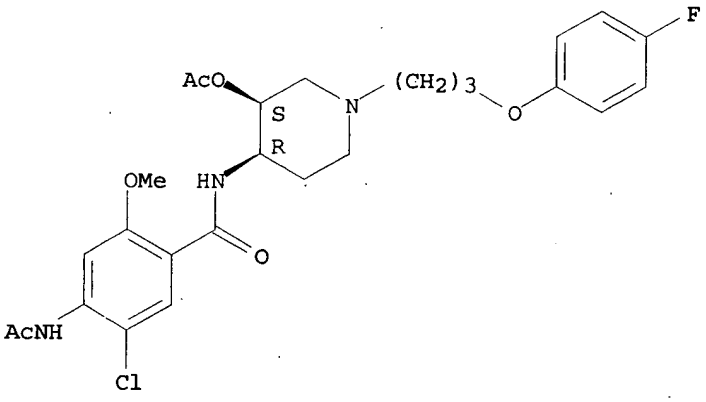
RN 86718-58-3 HCAPLUS
CN Benzamide, N-[3-(acetyloxy)-1-(2-pyridinylmethyl)-4-piperidinyl]-4-amino-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



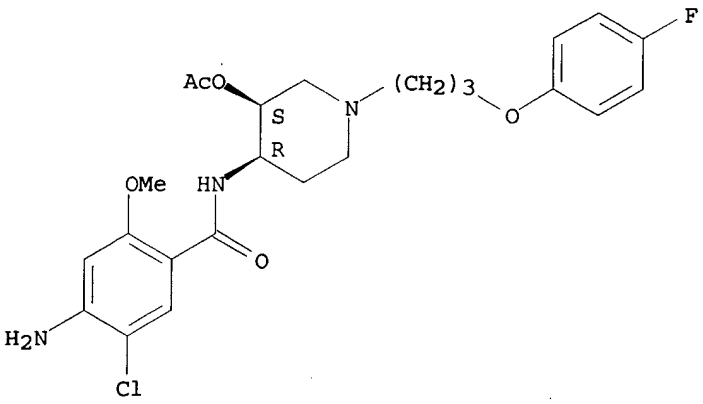
RN 86718-59-4 HCAPLUS
CN Benzamide, 4-(acetylamino)-N-[3-(acetyloxy)-1-[3-(4-fluorophenoxy)propyl]-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



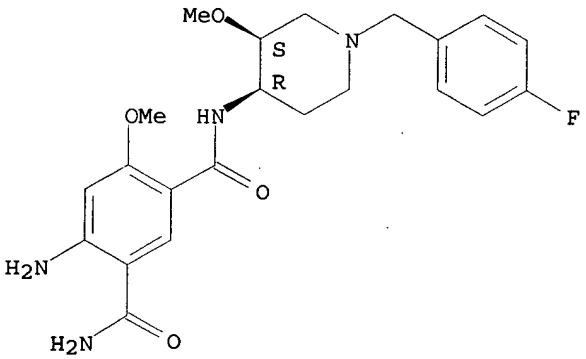
RN 86718-60-7 HCAPLUS
CN Benzamide, N-[3-(acetyloxy)-1-[3-(4-fluorophenoxy)propyl]-4-piperidinyl]-4-amino-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



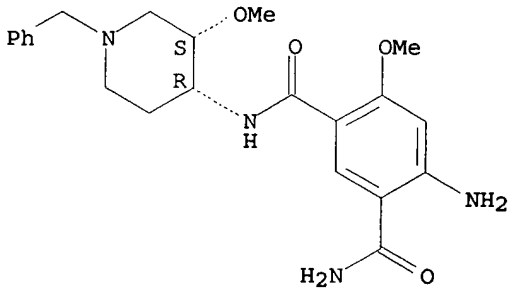
RN 86718-62-9 HCAPLUS
CN 1,3-Benzenedicarboxamide, 4-amino-N1-[1-[(4-fluorophenyl)methyl]-3-methoxy-4-piperidinyl]-6-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86718-64-1 HCAPLUS
CN 1,3-Benzenedicarboxamide, 4-amino-6-methoxy-N1-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

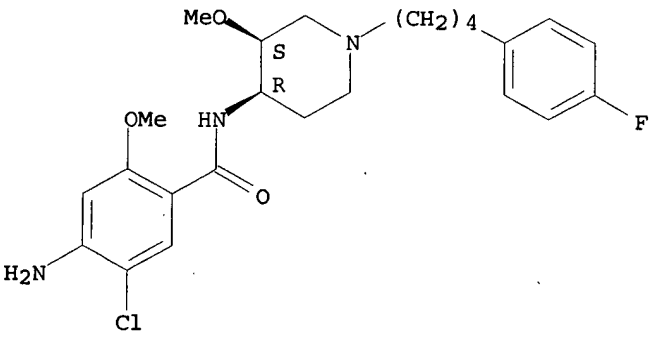
Relative stereochemistry.



RN 86718-65-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenyl)butyl]-3-

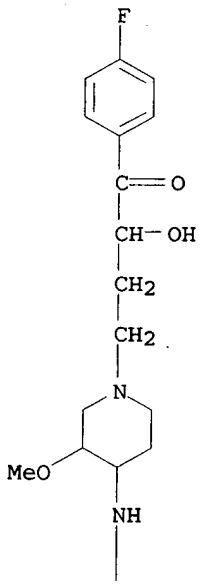
methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

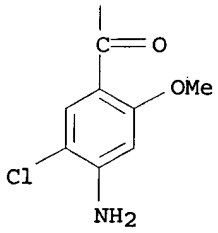


RN 86718-66-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenyl)-3-hydroxy-4-oxobutyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

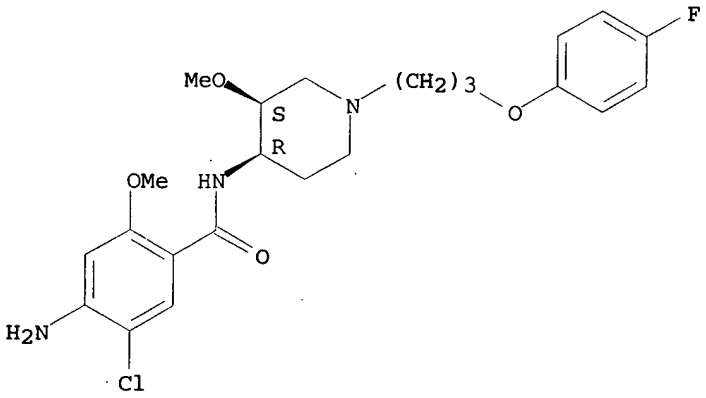


RN 86718-69-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[(3R,4S)-1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, rel-, (2Z)-2-butenedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 81098-60-4
CMF C23 H29 Cl F N3 O4

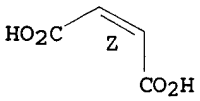
Relative stereochemistry.



CM 2

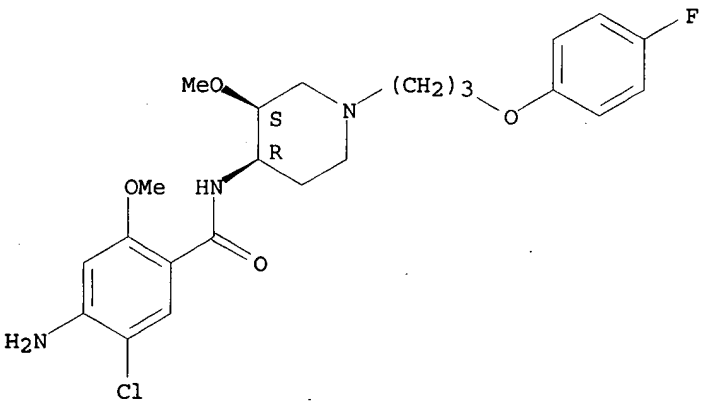
CRN 110-16-7
CMF C4 H4 O4

Double bond geometry as shown.



RN 86718-70-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[(3R,4S)-1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, rel-(+)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

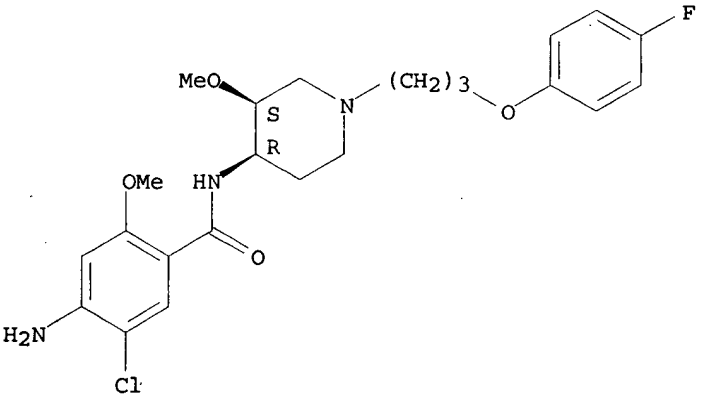


RN 86718-71-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[(3S,4R)-1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, (2R,3R)-2,3-dihydroxybutanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 86718-70-9
CMF C23 H29 Cl F N3 O4

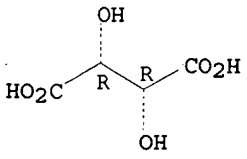
Absolute stereochemistry. Rotation (+).



CM 2

CRN 87-69-4
CMF C4 H6 O6

Absolute stereochemistry.

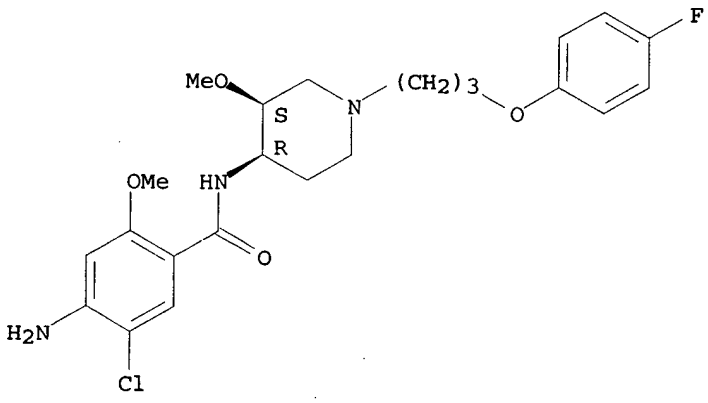


RN 86718-72-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis-, sulfate (1:1) (9CI) (CA INDEX NAME)

CM 1

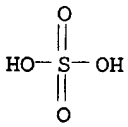
CRN 81098-60-4
CMF C23 H29 Cl F N3 O4

Relative stereochemistry.



CM 2

CRN 7664-93-9
CMF H2 O4 S

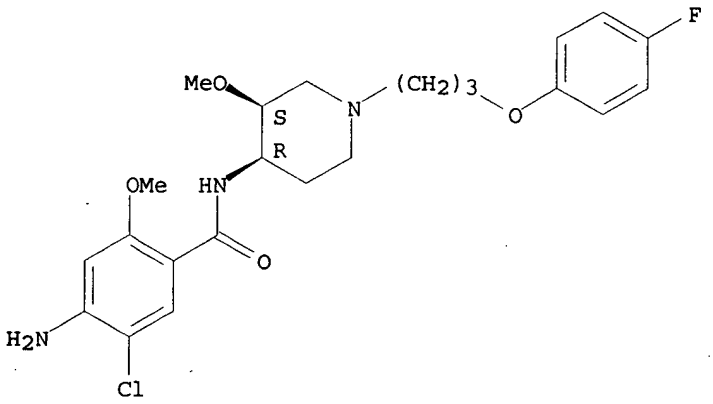


RN 86718-73-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis-, 2-hydroxy-1,2,3-propanetricarboxylate (1:1) (9CI) (CA INDEX NAME)

CM 1

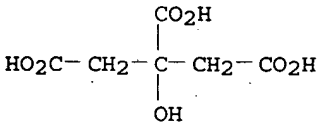
CRN 81098-60-4
CMF C23 H29 Cl F N3 O4

Relative stereochemistry.

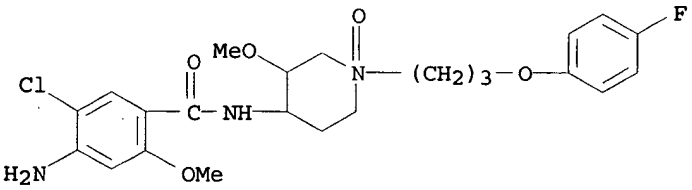


CM 2

CRN 77-92-9
CMF C6 H8 O7

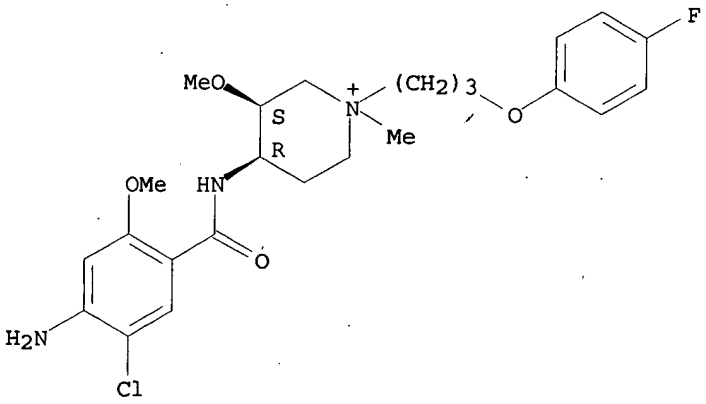


RN 86718-75-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[(3R,4S)-1-[3-(4-fluorophenoxy)propyl]-3-methoxy-1-oxido-4-piperidinyl]-2-methoxy-, rel- (9CI) (CA INDEX NAME)



RN 86718-76-5 HCAPLUS
CN Piperidinium, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-1-[3-(4-fluorophenoxy)propyl]-3-methoxy-1-methyl-, iodide, (3α,4α)- (9CI) (CA INDEX NAME)

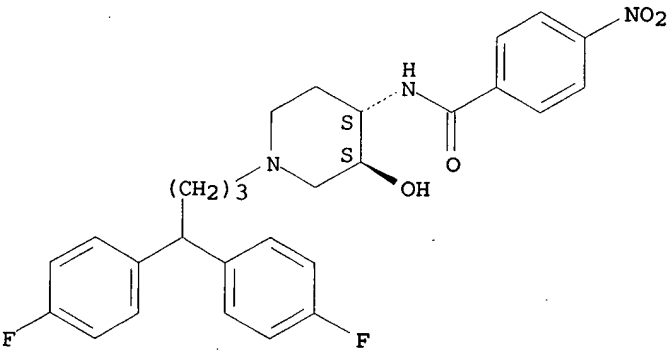
Relative stereochemistry.



● I^-

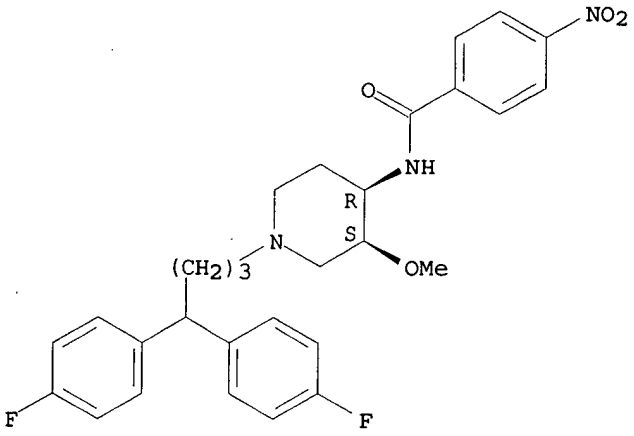
RN 86718-89-0 HCAPLUS
CN Benzamide, N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-4-nitro-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



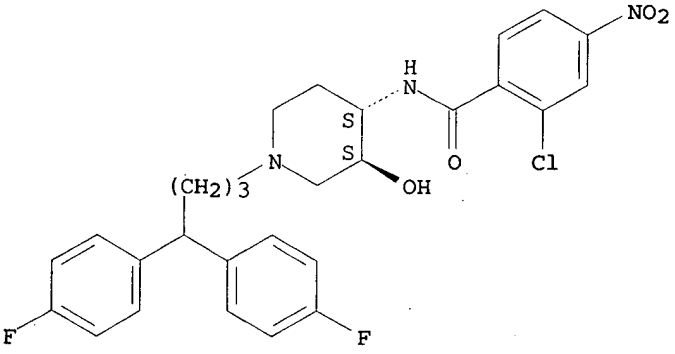
RN 86718-91-4 HCAPLUS
CN Benzamide, N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-4-nitro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86718-97-0 HCAPLUS
CN Benzamide, N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-2-chloro-4-nitro-, monohydrochloride, trans- (9CI) (CA INDEX NAME)

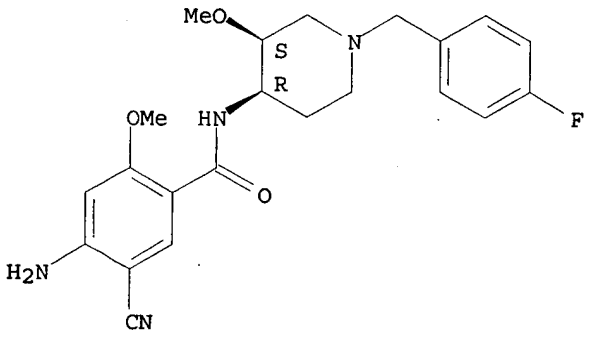
Relative stereochemistry.



● HCl

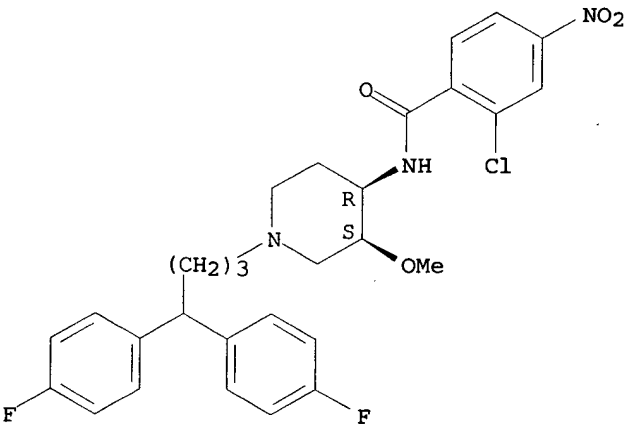
RN 86718-98-1 HCAPLUS
CN Benzamide, 4-amino-5-cyano-N-[1-[(4-fluorophenyl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



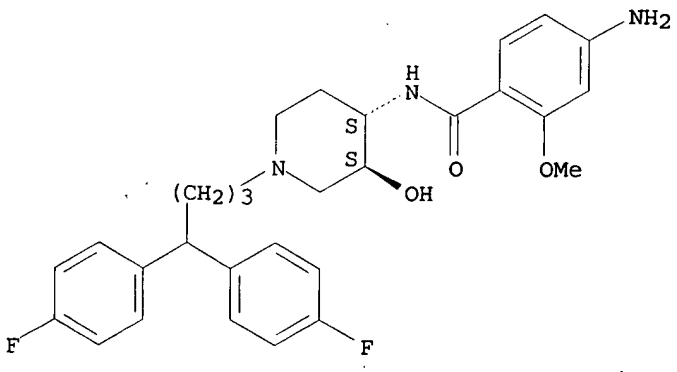
RN 86718-99-2 HCAPLUS
CN Benzamide, N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-2-chloro-4-nitro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



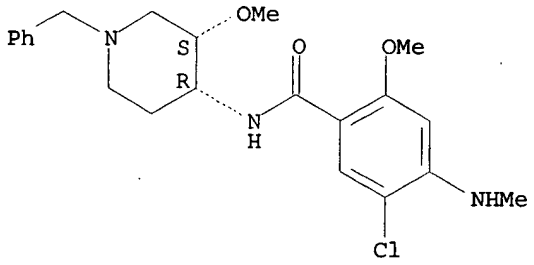
RN 86719-02-0 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-2-methoxy-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



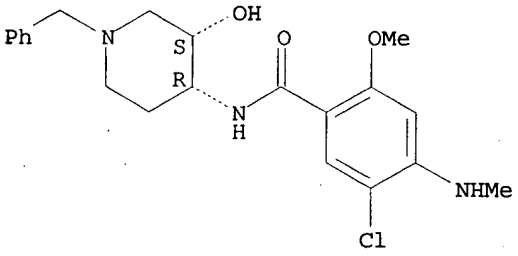
RN 86719-04-2 HCAPLUS
CN Benzamide, 5-chloro-2-methoxy-N-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-4-(methylamino)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



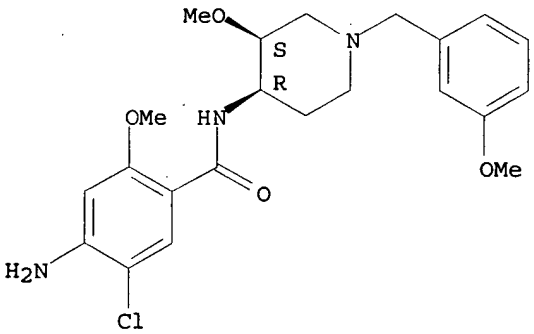
RN 86719-05-3 HCAPLUS
CN Benzamide, 5-chloro-N-[3-hydroxy-1-(phenylmethyl)-4-piperidinyl]-2-methoxy-4-(methylamino)-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



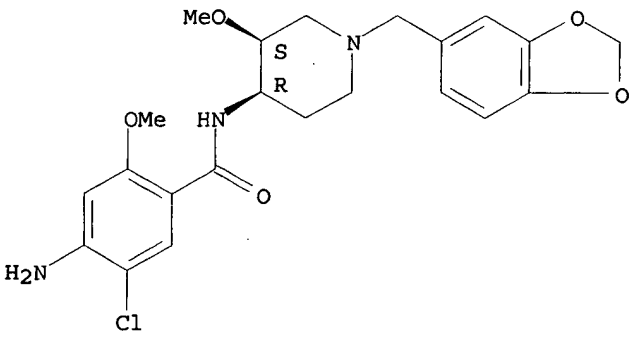
RN 86719-06-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(3-methoxyphenyl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



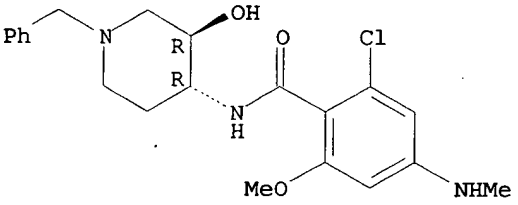
RN 86719-07-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-(1,3-benzodioxol-5-ylmethyl)-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



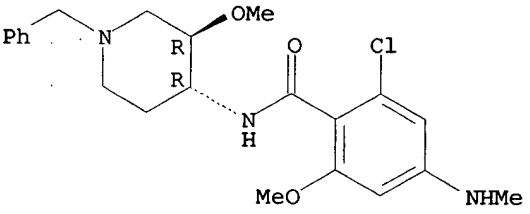
RN 86719-08-6 HCAPLUS
CN Benzamide, 2-chloro-N-[3-hydroxy-1-(phenylmethyl)-4-piperidinyl]-6-methoxy-4-(methylamino)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



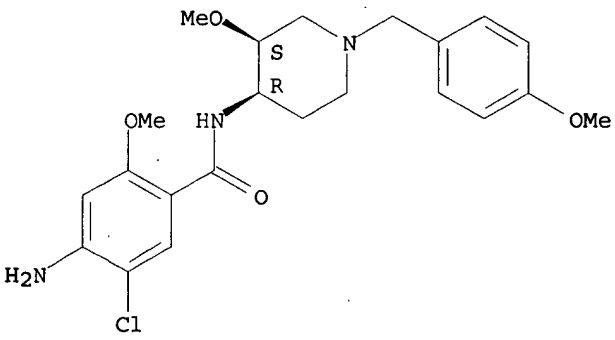
RN 86719-09-7 HCAPLUS
CN Benzamide, 2-chloro-6-methoxy-N-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-4-(methylamino)-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



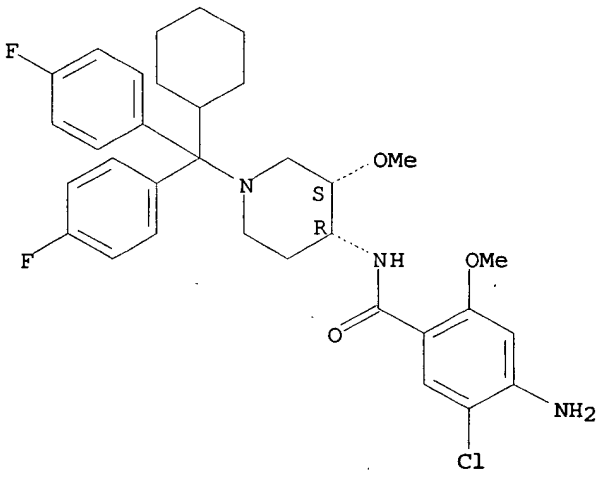
RN 86719-10-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(4-methoxyphenyl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



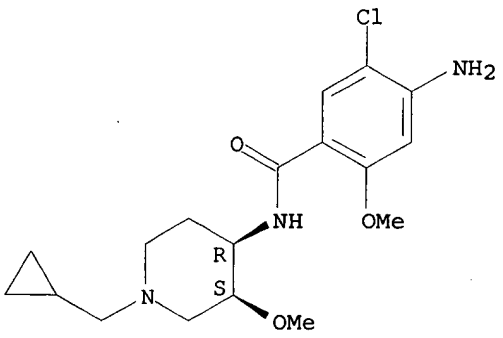
RN 86719-12-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[cyclohexylbis(4-fluorophenyl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



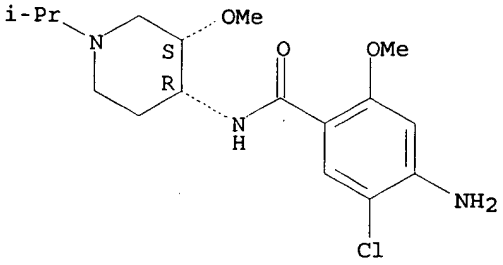
RN 86719-13-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-(cyclopropylmethyl)-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



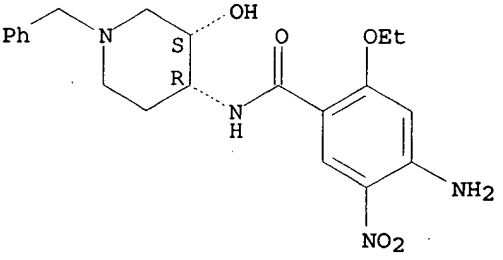
RN 86719-14-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(1-methylethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



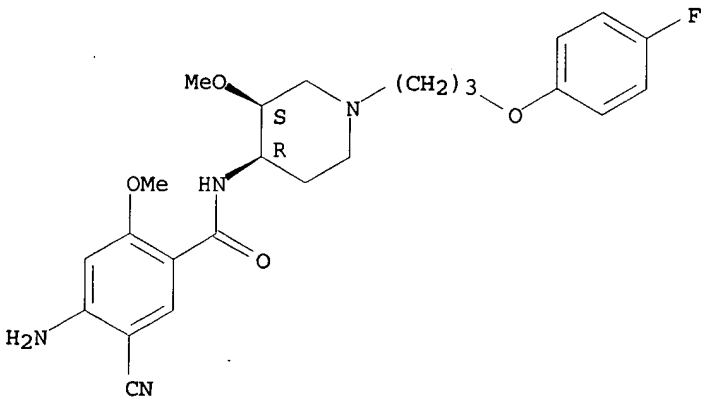
RN 86719-18-8 HCAPLUS
CN Benzamide, 4-amino-2-ethoxy-N-[3-hydroxy-1-(phenylmethyl)-4-piperidinyl]-5-nitro-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



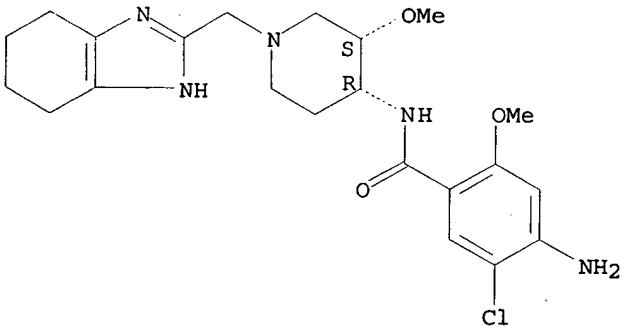
RN 86719-26-8 HCAPLUS
CN Benzamide, 4-amino-5-cyano-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



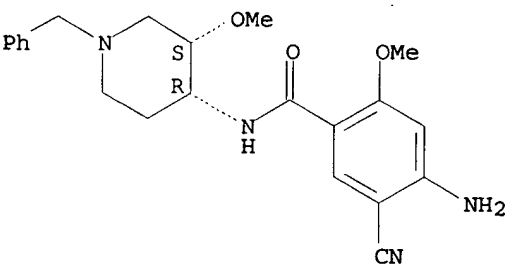
RN 86719-27-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(4,5,6,7-tetrahydro-1H-benzimidazol-2-yl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86719-29-1 HCAPLUS
CN Benzamide, 4-amino-5-cyano-2-methoxy-N-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

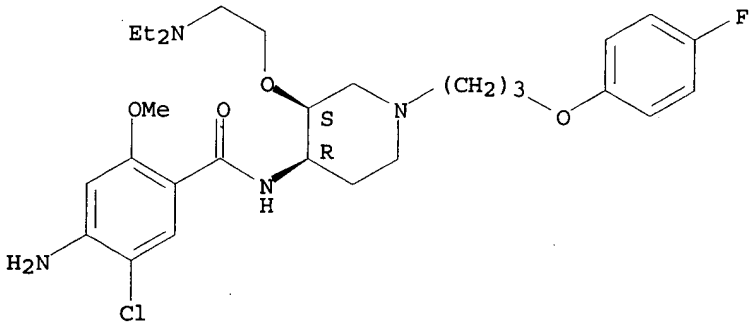
Relative stereochemistry.



RN 86719-34-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-[2-(diethylamino)ethoxy]-1-[3-(4-fluorophenoxy)propyl]-4-piperidinyl]-2-methoxy-, dihydrochloride,

cis- (9CI) (CA INDEX NAME)

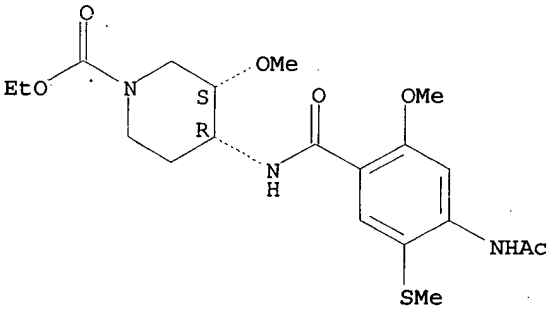
Relative stereochemistry.



●2 HCl

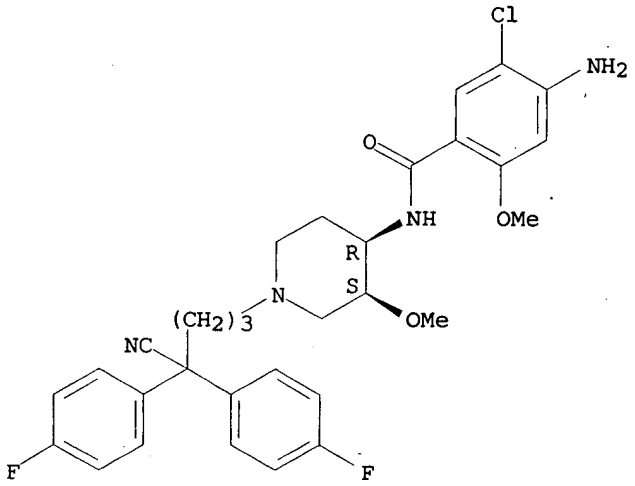
RN 86719-36-0 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[[4-(acetylamino)-2-methoxy-5-(methylthio)benzoyl]amino]-3-methoxy-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



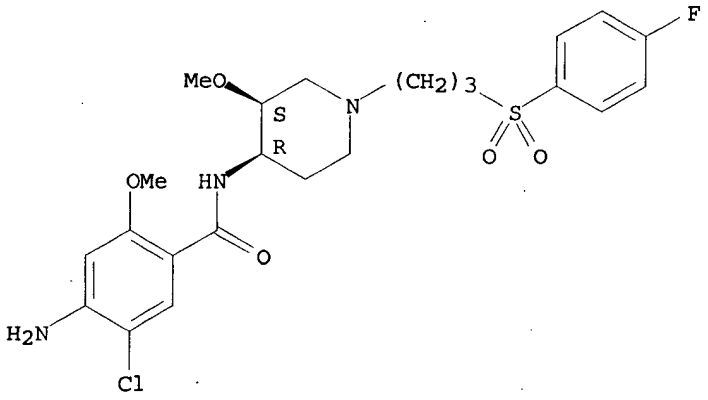
RN 86719-37-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-cyano-4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



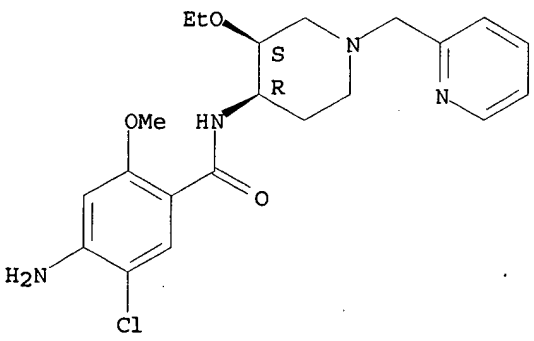
RN 86719-38-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-[(4-fluorophenyl)sulfonyl]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



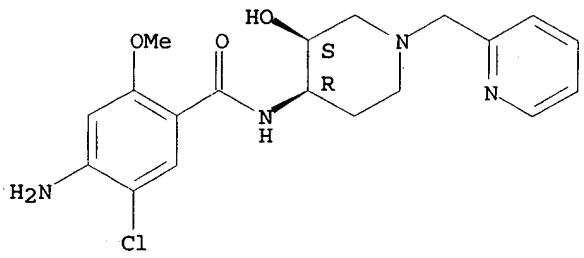
RN 86719-39-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-ethoxy-1-(2-pyridinylmethyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



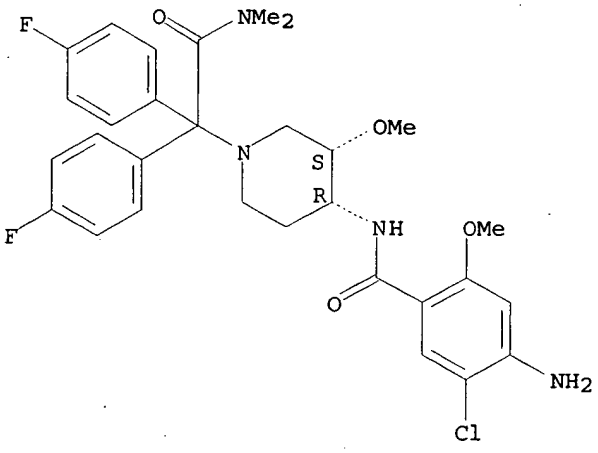
RN 86719-40-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(2-pyridinylmethyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86719-41-7 HCAPLUS
CN 1-Piperidineacetamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-α,α-bis(4-fluorophenyl)-3-methoxy-N,N-dimethyl-, cis- (9CI) (CA INDEX NAME)

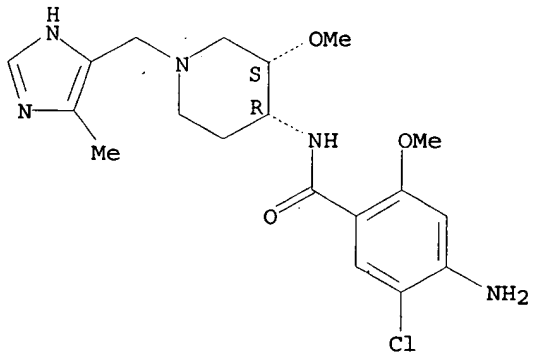
Relative stereochemistry.



RN 86719-42-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(5-methyl-1H-

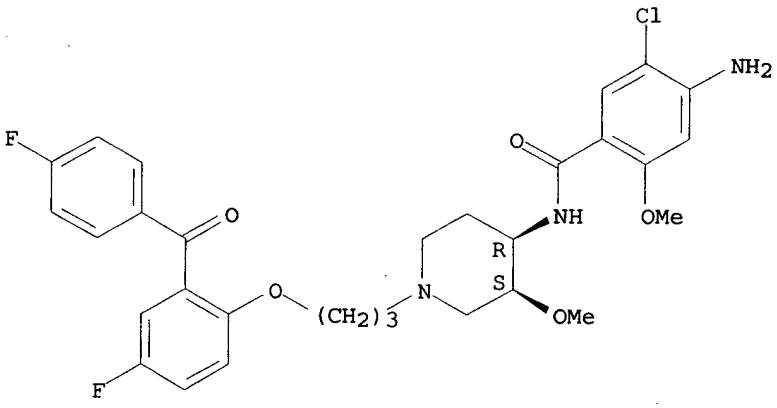
imidazol-4-yl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



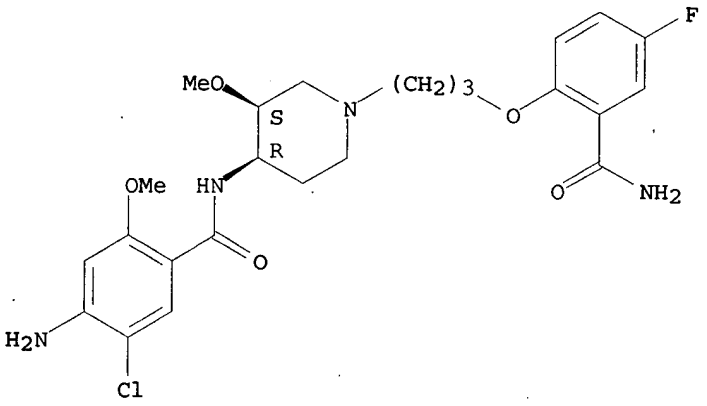
RN 86719-43-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-[4-fluoro-2-(4-fluorobenzoyl)phenoxy]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



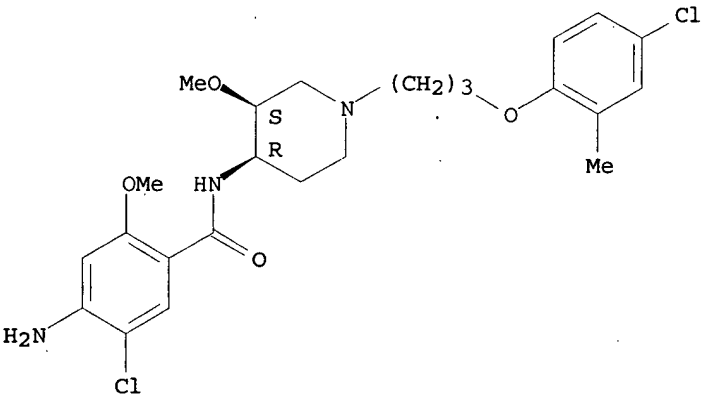
RN 86719-44-0 HCAPLUS
CN Benzamide, 4-amino-N-[1-[3-[2-(aminocarbonyl)-4-fluorophenoxy]propyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



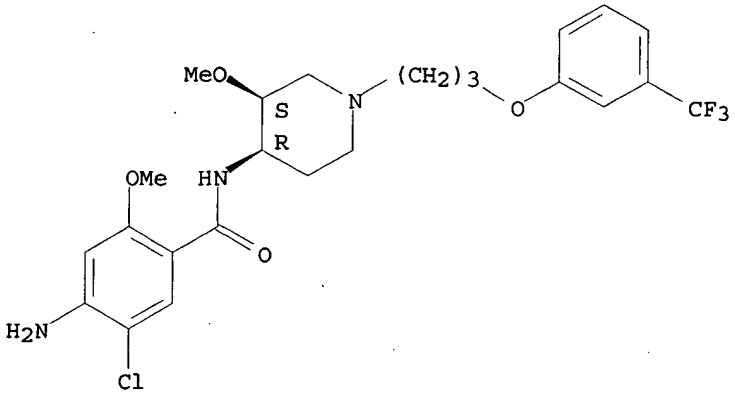
RN 86719-45-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-chloro-2-methylphenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



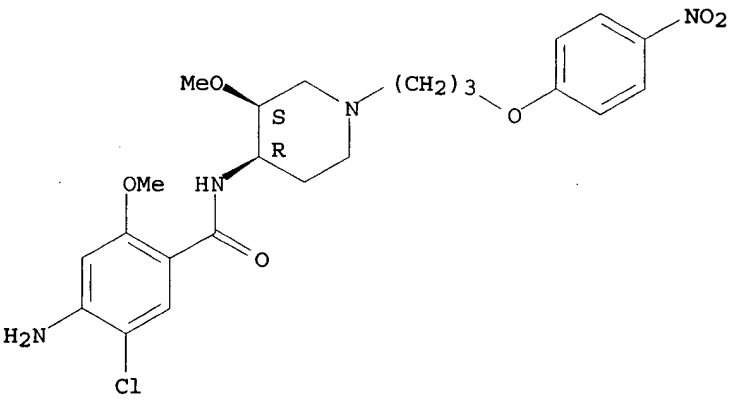
RN 86719-46-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[3-[3-(trifluoromethyl)phenoxy]propyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



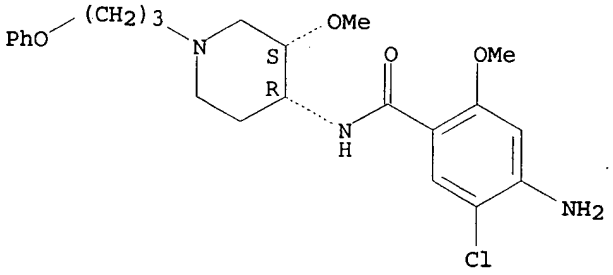
RN 86719-47-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[3-(4-nitrophenoxy)propyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



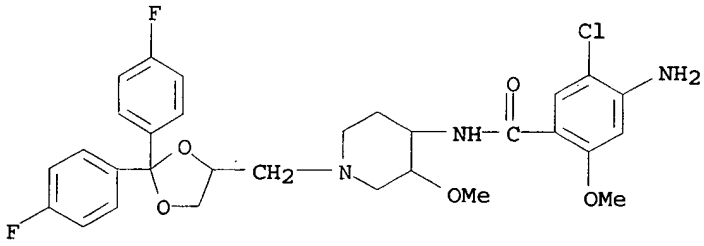
RN 86719-48-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(3-phenoxypropyl)-4-piperidinyl]-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



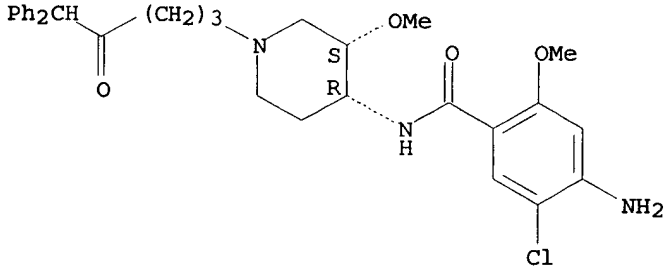
● HCl

RN 86719-49-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-[[2,2-bis(4-fluorophenyl)-1,3-dioxolan-4-yl]methyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy- (9CI) (CA INDEX NAME)



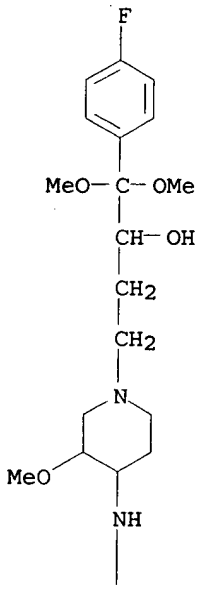
RN 86719-51-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(4-oxo-5,5-diphenylpentyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

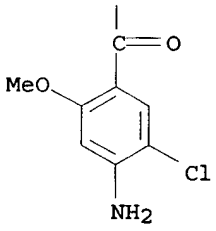


RN 86719-52-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenyl)-3-hydroxy-4,4-dimethoxybutyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A

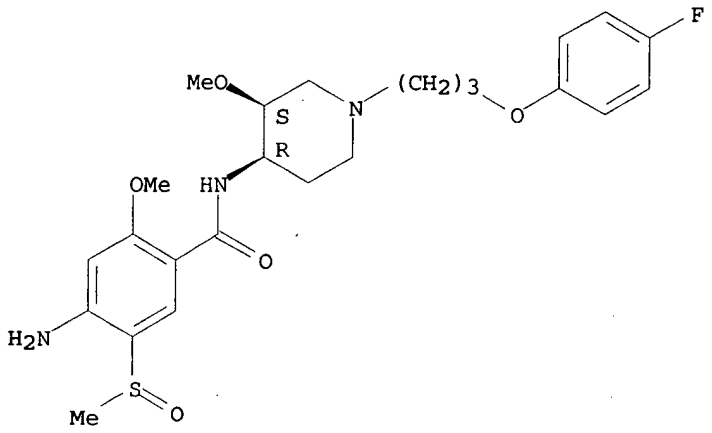


PAGE 2-A

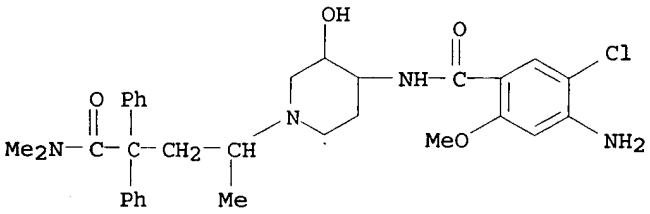


RN 86719-53-1 HCAPLUS
CN Benzamide, 4-amino-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-5-(methylsulfinyl)-, (3α,4α)-(9CI) (CA INDEX NAME)

Relative stereochemistry.

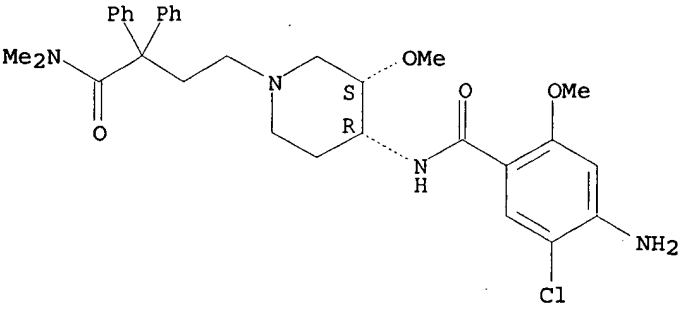


RN 86719-58-6 HCAPLUS
CN 1-Piperidinebutanamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-3-hydroxy-N,N,γ-trimethyl-α,α-diphenyl- (9CI) (CA INDEX NAME)



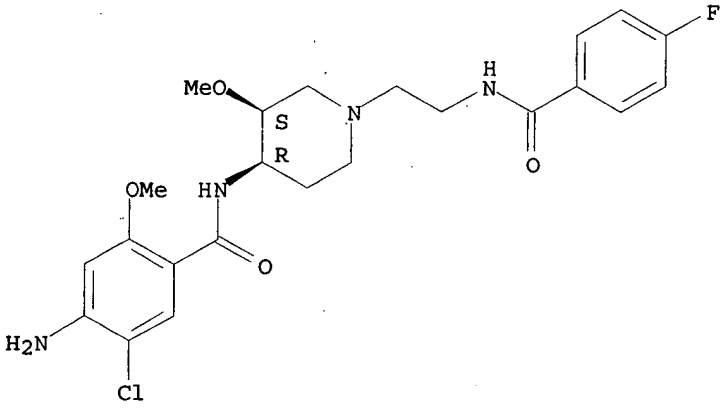
RN 86719-59-7 HCAPLUS
CN 1-Piperidinebutanamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-3-methoxy-N,N-dimethyl-α,α-diphenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

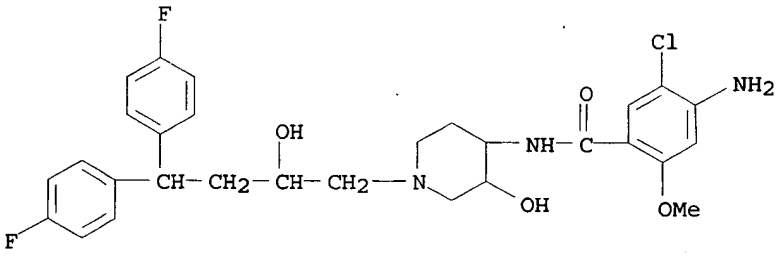


RN 86719-60-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-[(4-fluorobenzoyl)amino]ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

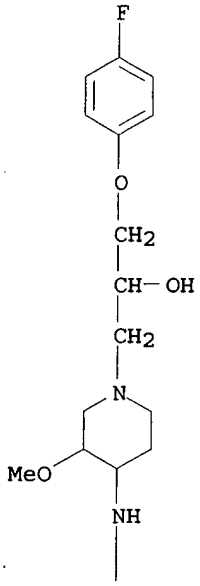


RN 86719-65-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)-2-hydroxybutyl]-3-hydroxy-4-piperidinyl]-5-chloro-2-methoxy- (9CI) (CA INDEX NAME)

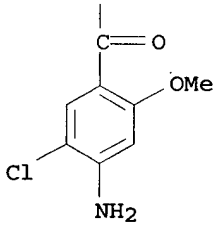


RN 86719-66-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)-2-hydroxypropyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)

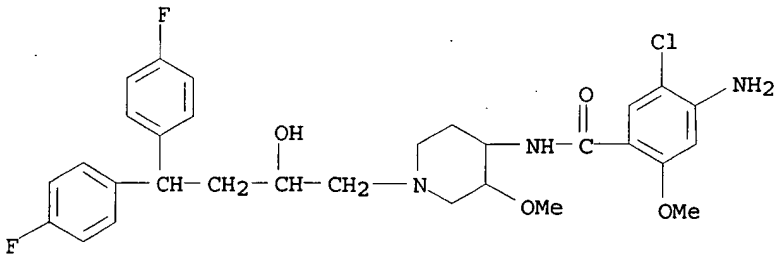
PAGE 1-A



PAGE 2-A



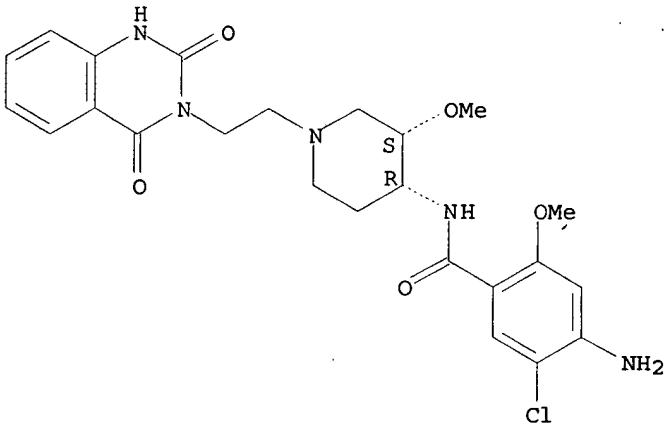
RN 86719-67-7 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)-2-hydroxybutyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy- (9CI) (CA INDEX NAME)



RN 86719-68-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(1,4-dihydro-2,4-dioxo-3(2H)-quinazolinyl)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis-

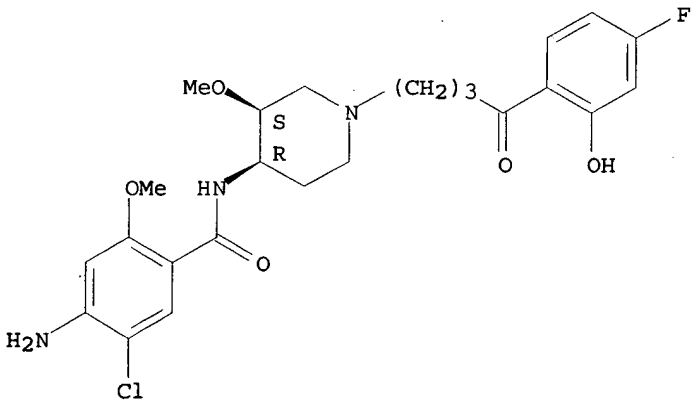
(9CI) (CA INDEX NAME)

Relative stereochemistry.



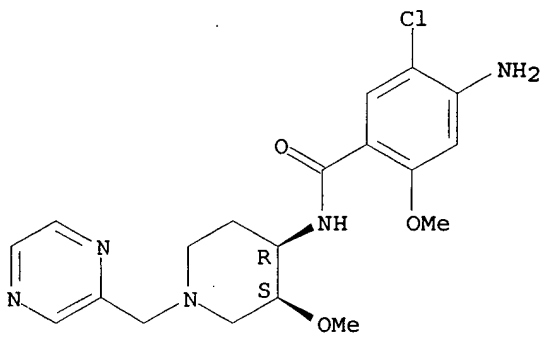
RN 86719-69-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluoro-2-hydroxyphenyl)-4-oxobutyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



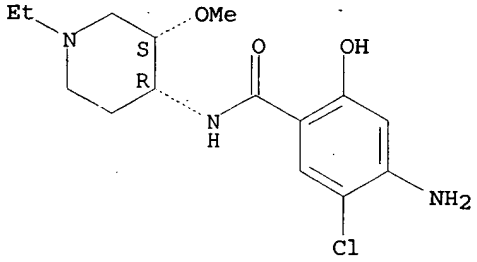
RN 86719-70-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(pyrazinylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

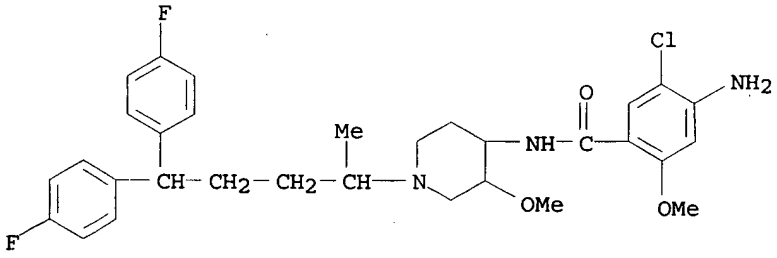


RN 86719-72-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-(1-ethyl-3-methoxy-4-piperidinyl)-2-hydroxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

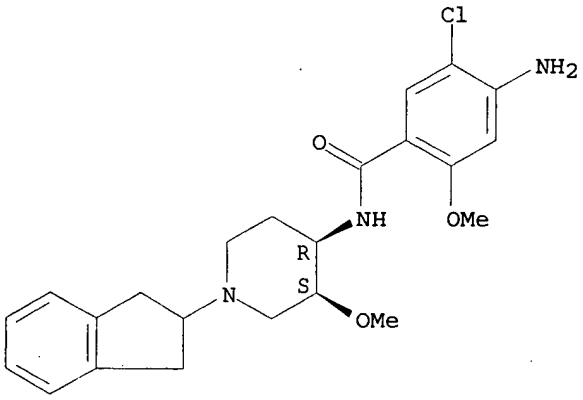


RN 86719-73-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)-1-methylbutyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy- (9CI) (CA INDEX NAME)



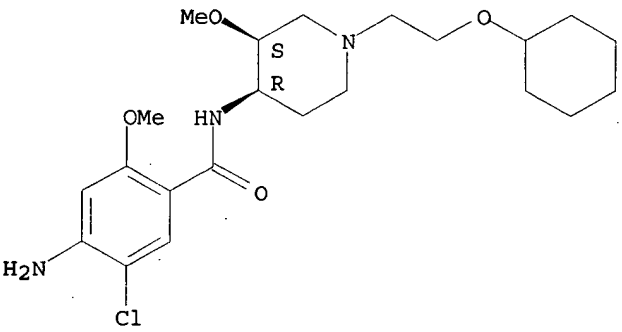
RN 86719-74-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-(2,3-dihydro-1H-inden-2-yl)-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



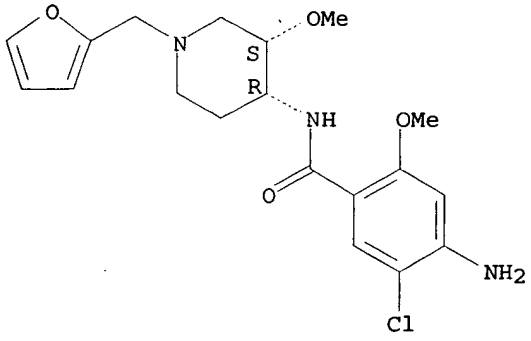
RN 86719-75-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(cyclohexyloxy)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86719-76-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-(2-furanylmethyl)-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

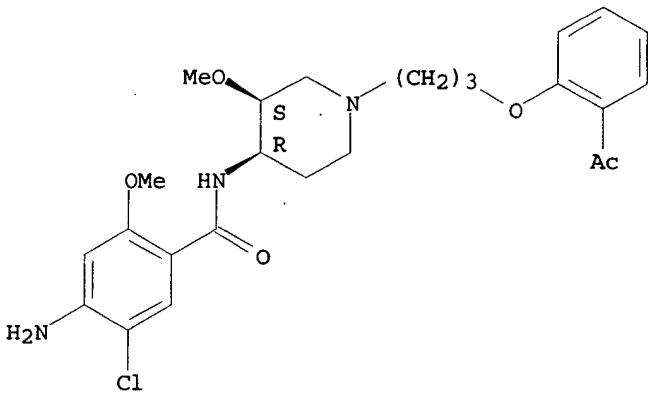
Relative stereochemistry.



RN 86719-83-7 HCAPLUS

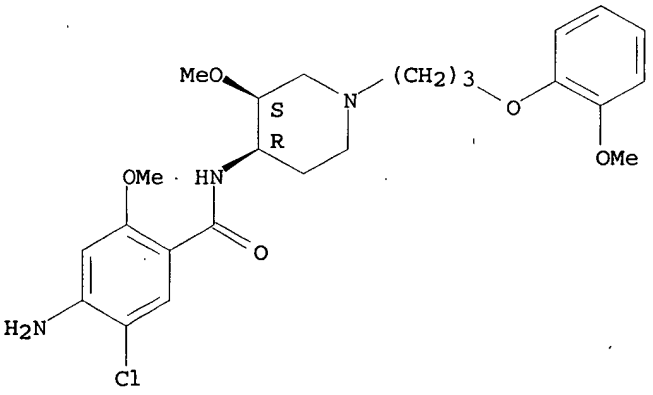
CN Benzamide, N-[1-[3-(2-acetylphenoxy)propyl]-3-methoxy-4-piperidinyl]-4-amino-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



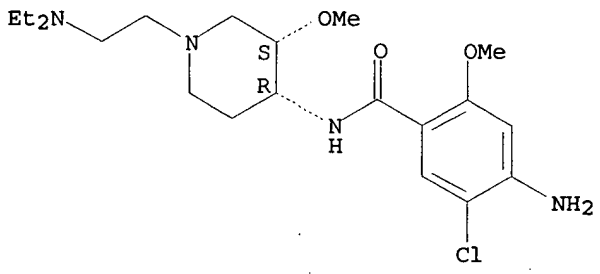
RN 86719-84-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[3-(2-methoxyphenoxy)propyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



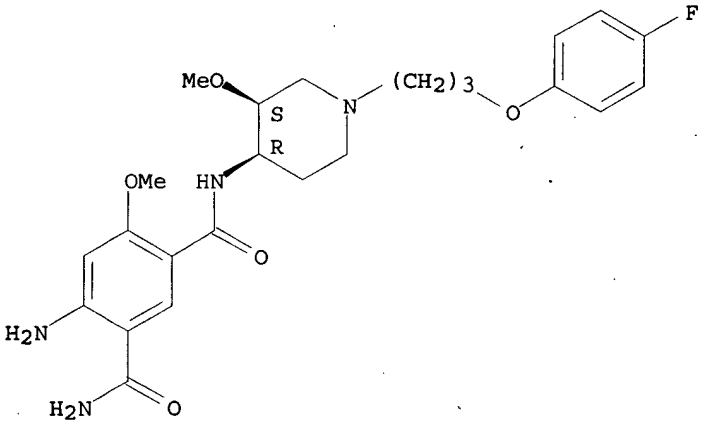
RN 86719-85-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(diethylamino)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



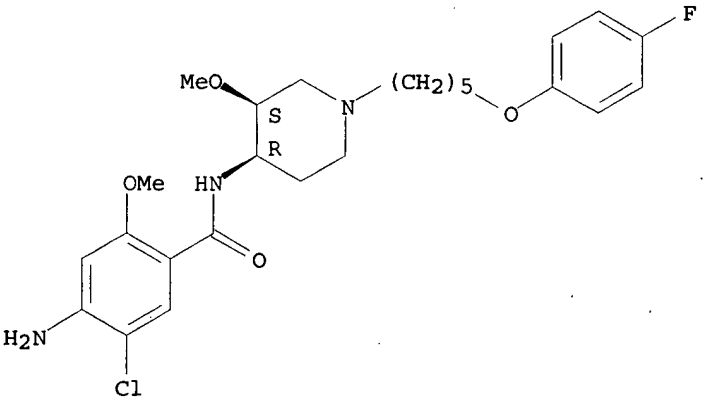
RN 86719-88-2 HCAPLUS
CN 1,3-Benzenedicarboxamide, 4-amino-N1-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-6-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



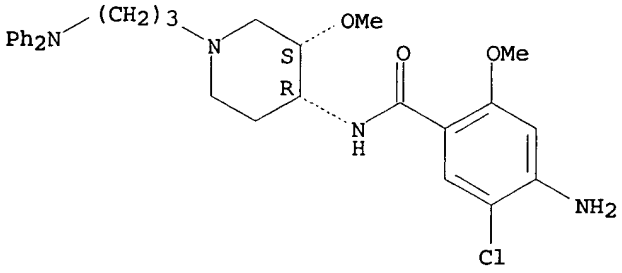
RN 86719-89-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[5-(4-fluorophenoxy)pentyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



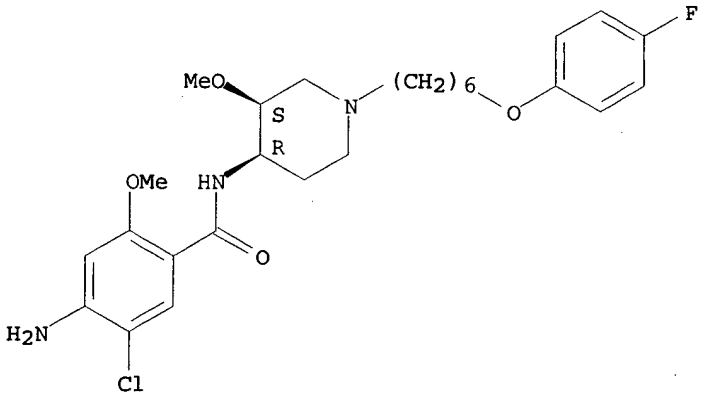
RN 86719-90-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(diphenylamino)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



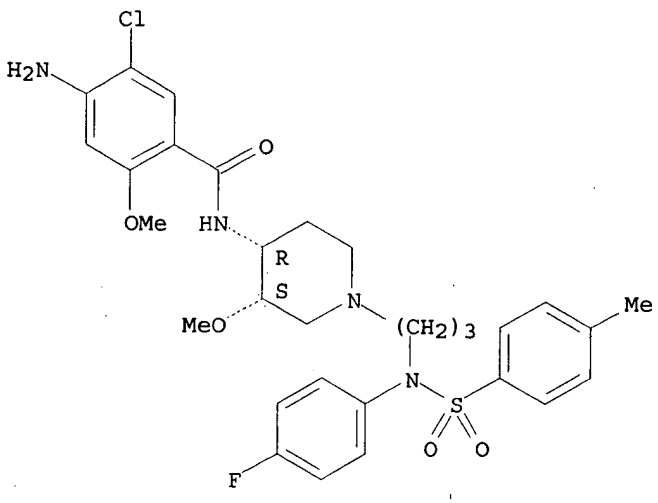
RN 86719-91-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[6-(4-fluorophenoxy)hexyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



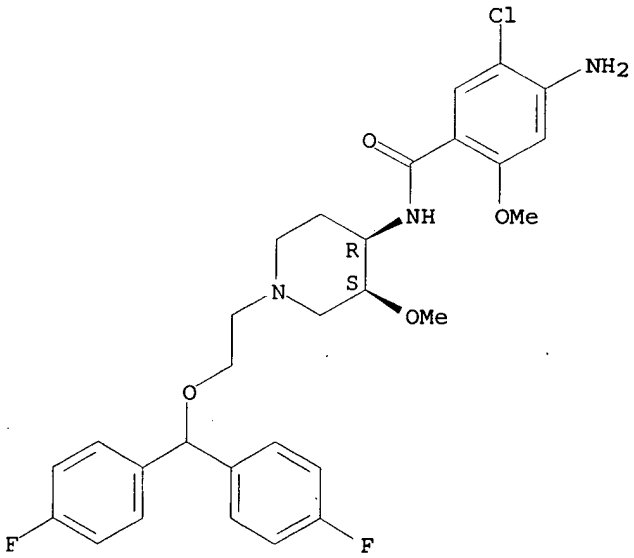
RN 86719-92-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-[(4-fluorophenyl)[(4-methylphenyl)sulfonyl]amino]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



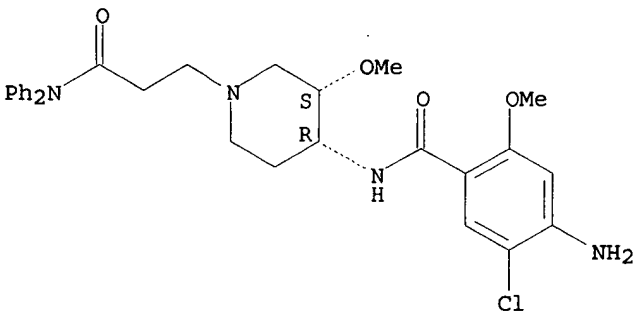
RN 86719-93-9 HCAPLUS
CN Benzamide, 4-amino-N-[1-[2-[bis(4-fluorophenyl)methoxy]ethyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



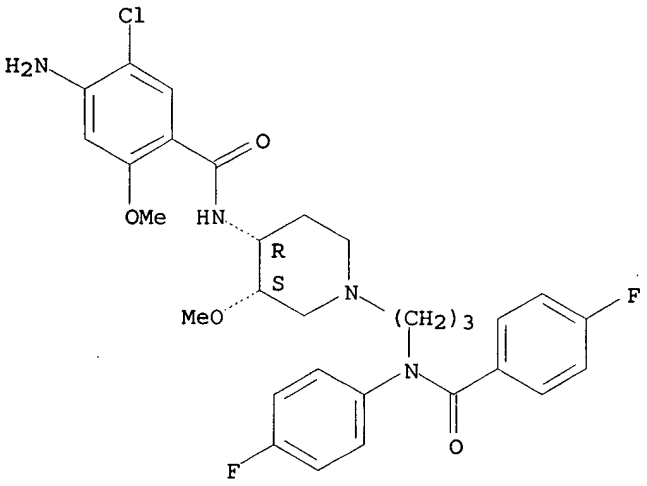
RN 86719-94-0 HCAPLUS
CN 1-Piperidinepropanamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-3-methoxy-N,N-diphenyl-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



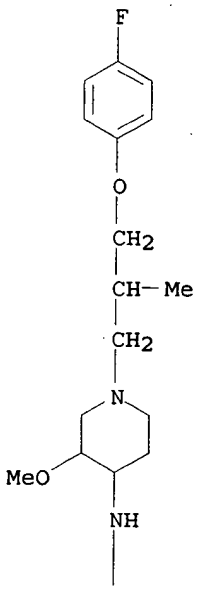
RN 86719-95-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-[(4-fluorobenzoyl)(4-fluorophenyl)amino]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

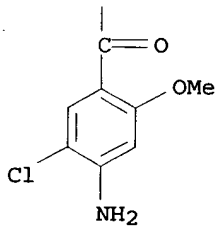


RN 86719-96-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)-2-methylpropyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A

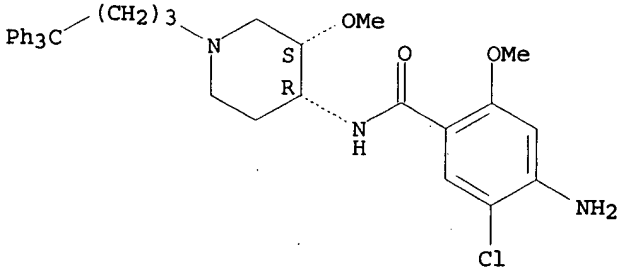


PAGE 2-A



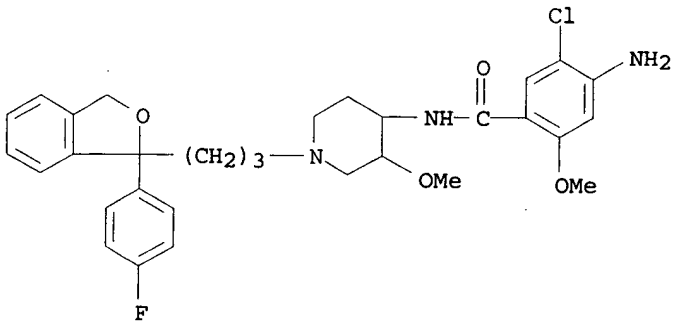
RN 86719-97-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(4,4,4-triphenylbutyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



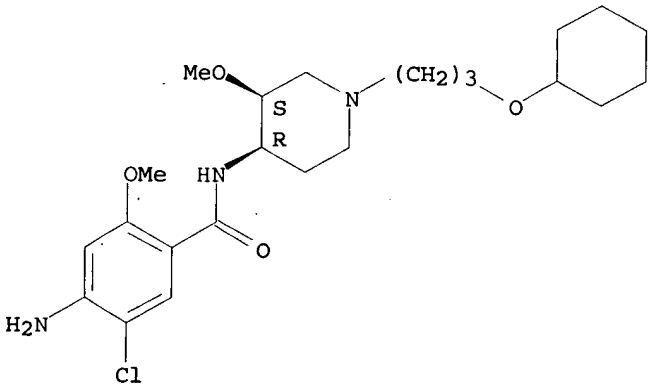
RN 86719-98-4 HCAPLUS

CN Benzamide, 4-amino-5-chloro-N-[1-[3-[1-(4-fluorophenyl)-1,3-dihydro-1-isobenzofuranyl]propyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)



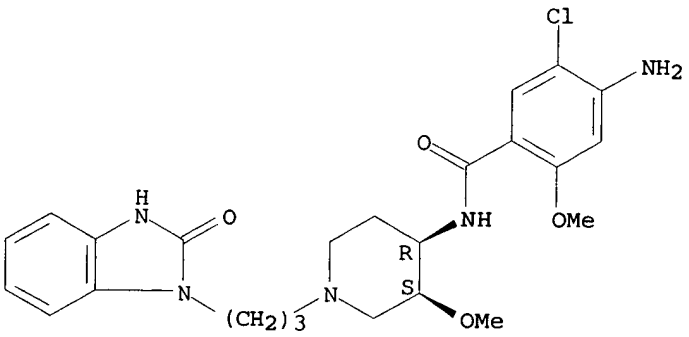
RN 86719-99-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(cyclohexyloxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



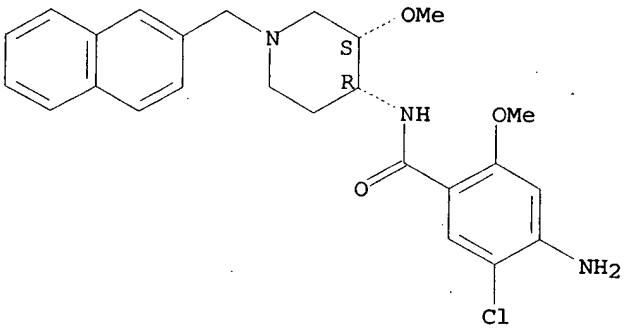
RN 86720-04-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



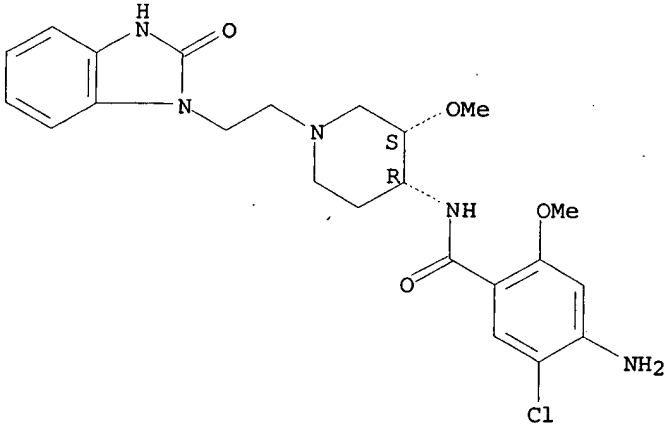
RN 86720-05-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-naphthalenylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



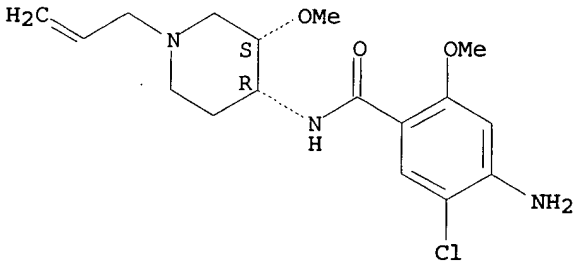
RN 86720-06-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



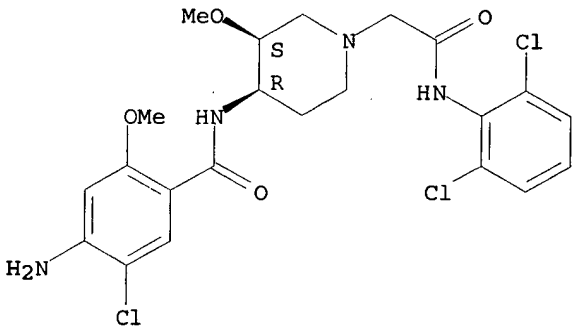
RN 86720-07-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-propenyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



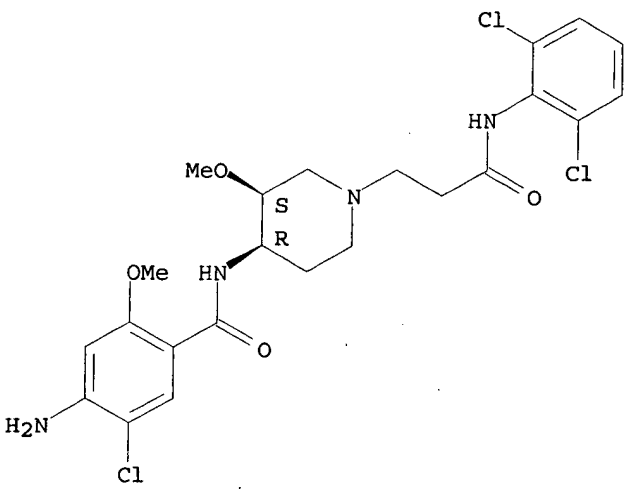
RN 86720-08-3 HCAPLUS
CN 1-Piperidineacetamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-N-(2,6-dichlorophenyl)-3-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



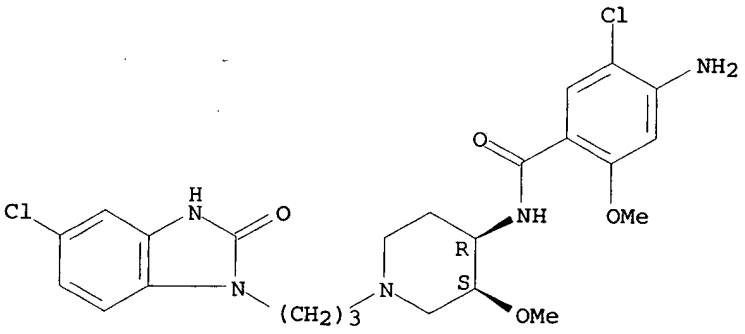
RN 86720-09-4 HCAPLUS
CN 1-Piperidinepropanamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-N-(2,6-dichlorophenyl)-3-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



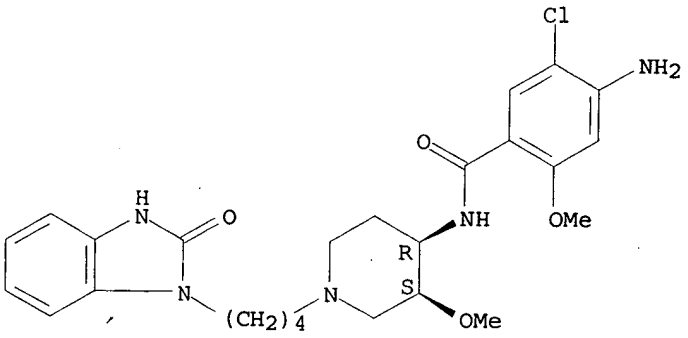
RN 86720-10-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(5-chloro-2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



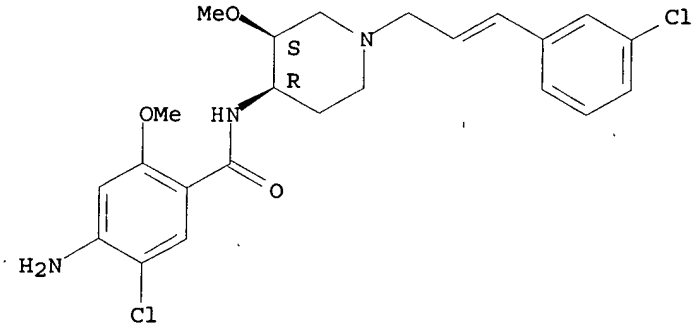
RN 86720-11-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)butyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



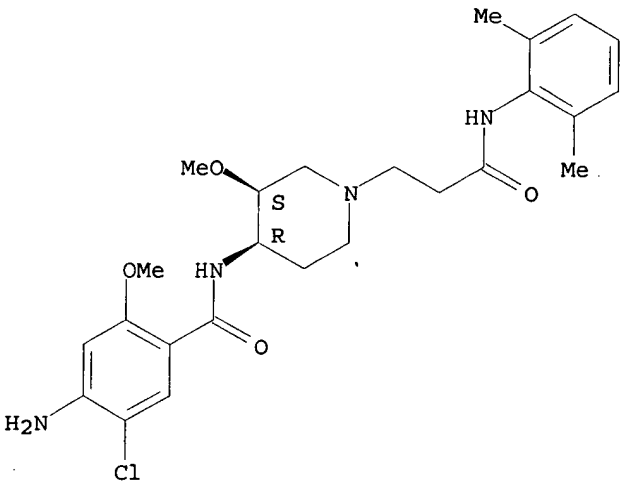
RN 86720-12-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(3-chlorophenyl)-2-propenyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



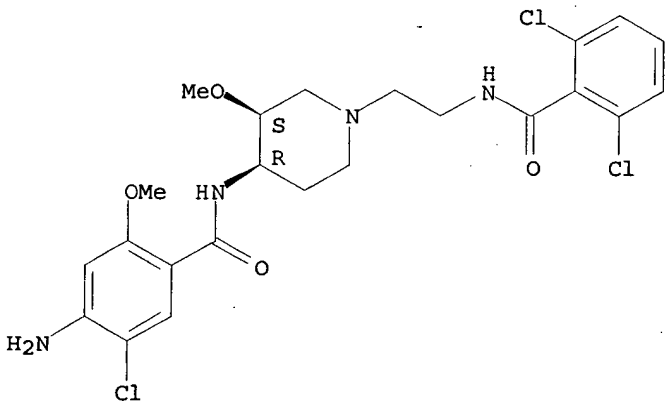
RN 86720-13-0 HCAPLUS
CN 1-Piperidinepropanamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-N-(2,6-dimethylphenyl)-3-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



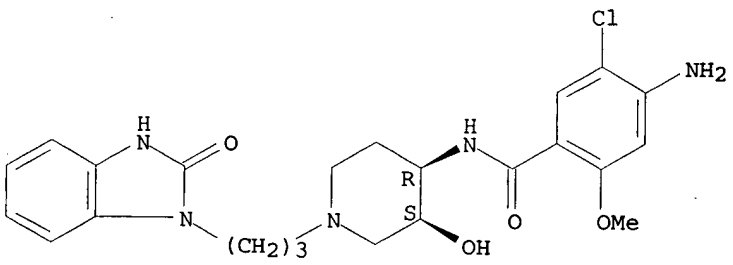
RN 86720-14-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-[(2,6-dichlorobenzoyl)amino]ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



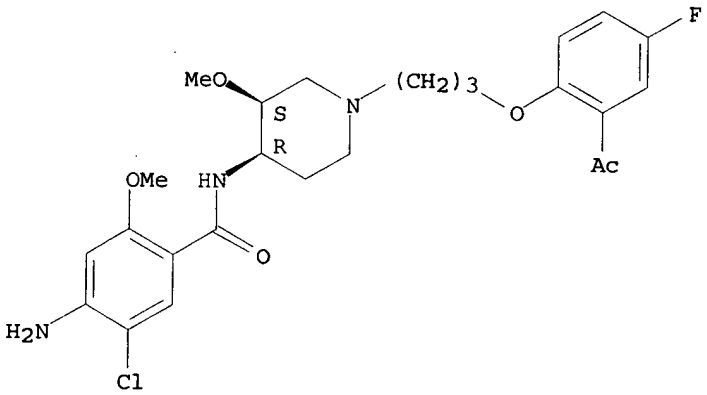
RN 86720-15-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(2,3-dihydro-2-oxo-1H-benzimidazol-1-yl)propyl]-3-hydroxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



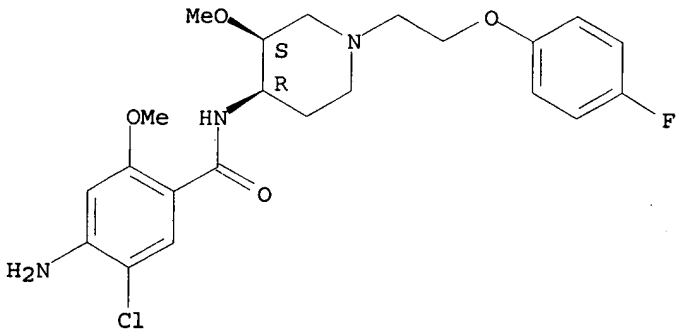
RN 86720-16-3 HCAPLUS
CN Benzamide, N-[1-[3-(2-acetyl-4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-4-amino-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



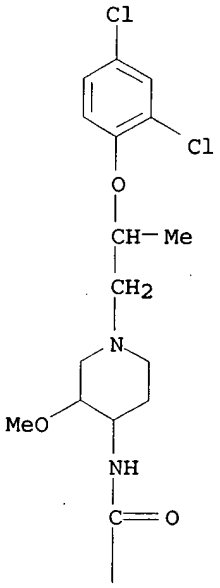
RN 86720-17-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(4-fluorophenoxy)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

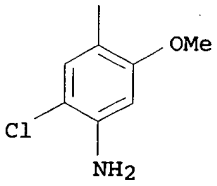


RN 86720-18-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(2,4-dichlorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)

PAGE 1-A

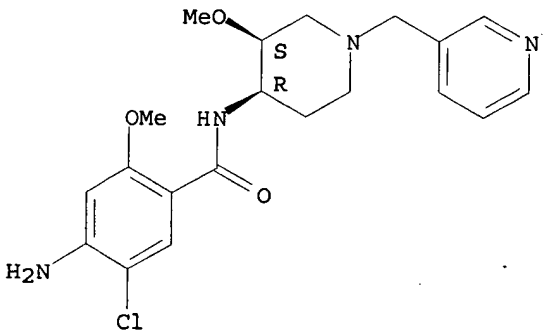


PAGE 2-A



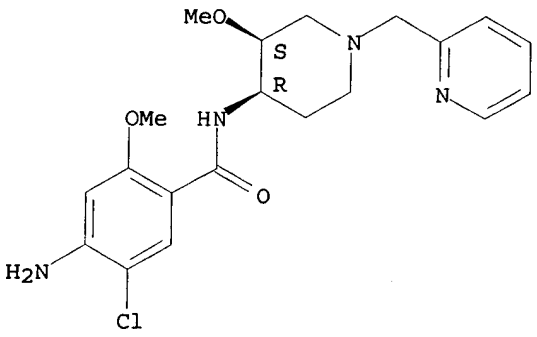
RN 86720-19-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(3-pyridinylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



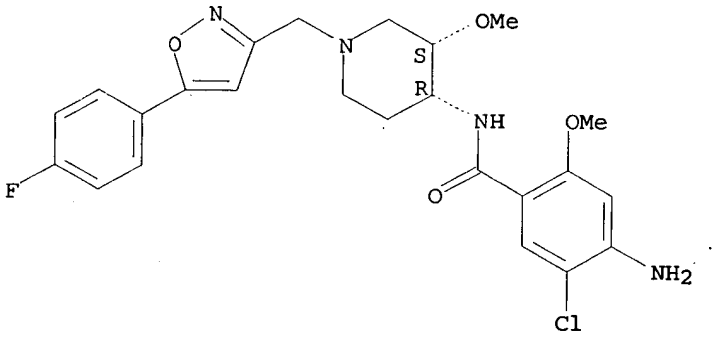
RN 86720-24-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-pyridinylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



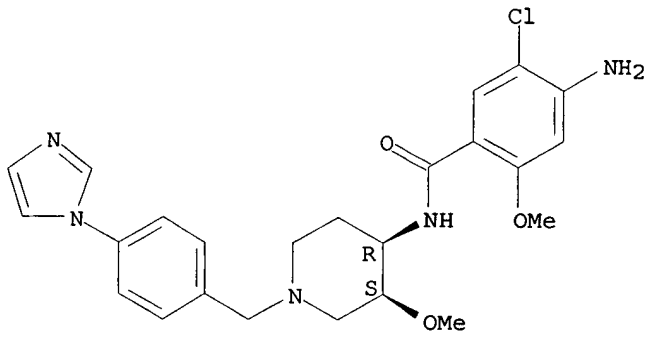
RN 86720-25-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[[5-(4-fluorophenyl)-3-isoxazolyl]methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



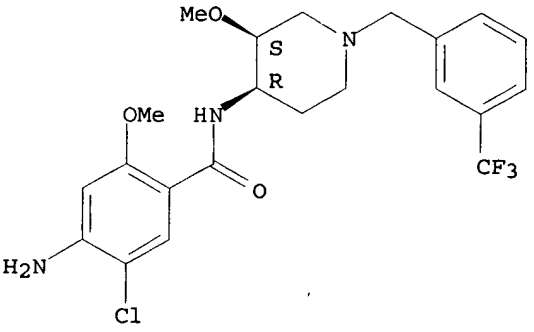
RN 86720-26-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[[4-(1H-imidazol-1-yl)phenyl]methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



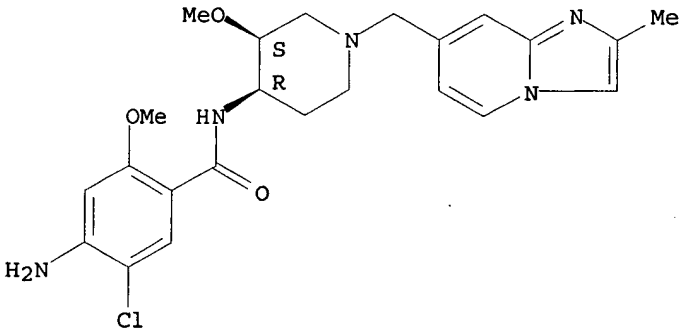
RN 86720-27-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[[3-(trifluoromethyl)phenyl]methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86720-28-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(2-methylimidazo[1,2-a]pyridin-7-yl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

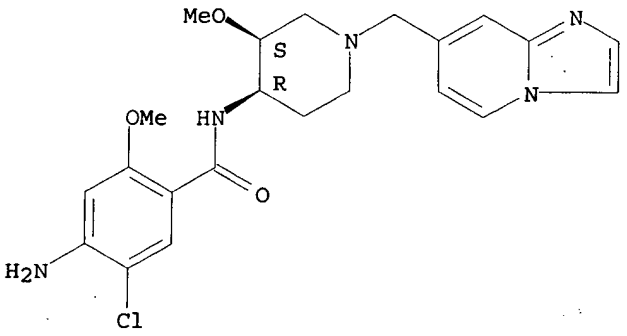
Relative stereochemistry.



RN 86720-29-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-(imidazo[1,2-a]pyridin-7-

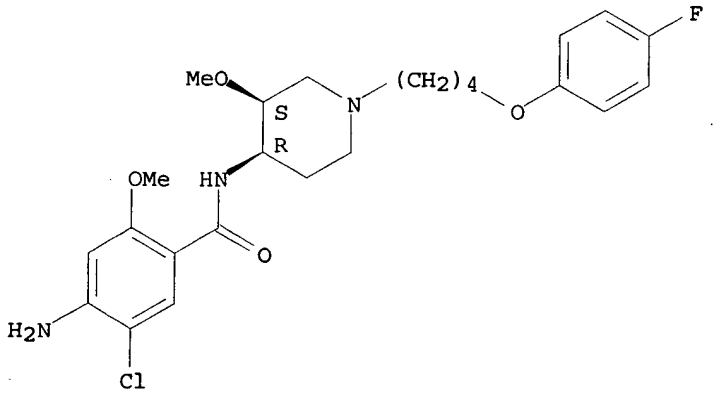
ylmethyl)-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



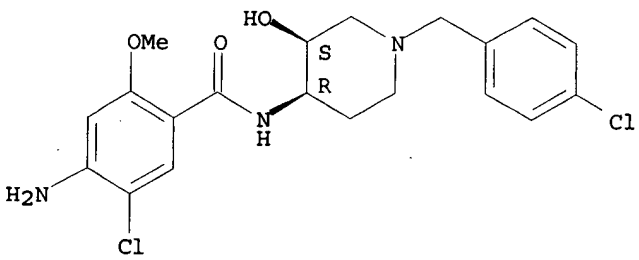
RN 86720-30-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenoxy)butyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



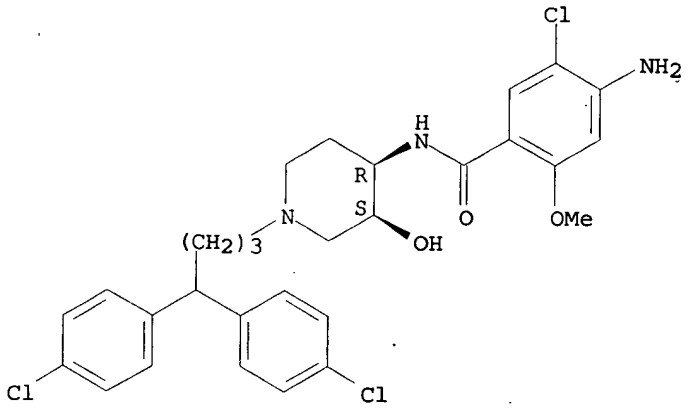
RN 86720-39-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(4-chlorophenyl)methyl]-3-hydroxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



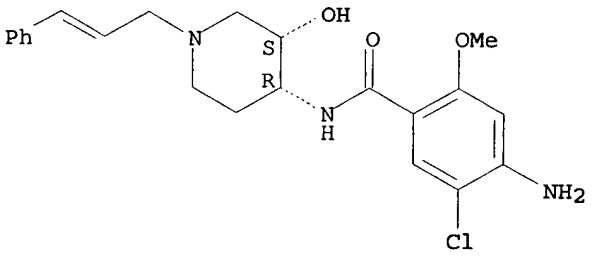
RN 86720-41-4 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-chlorophenyl)butyl]-3-hydroxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



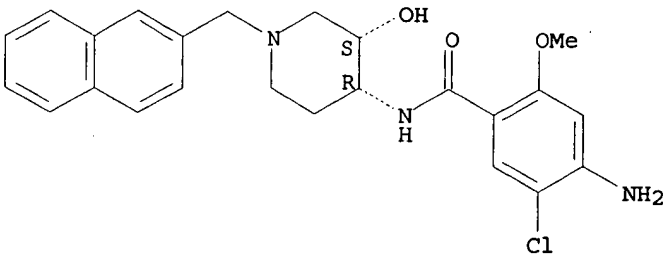
RN 86720-42-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(3-phenyl-2-propenyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



RN 86720-43-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(2-naphthalenylmethyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

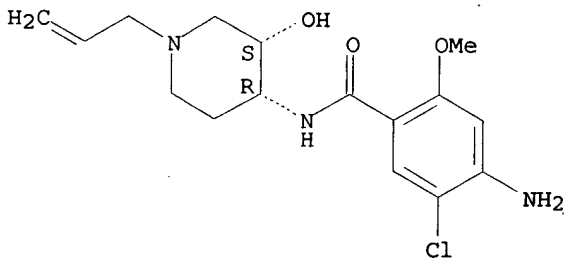
Relative stereochemistry.



RN 86720-45-8 HCAPLUS

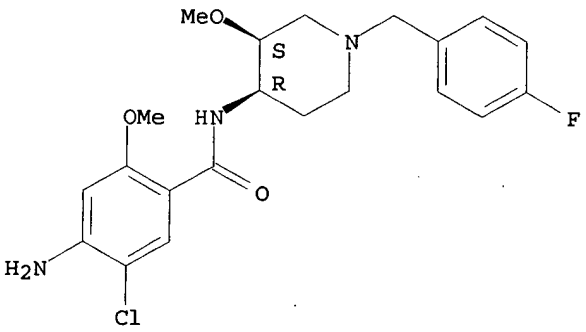
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(2-propenyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



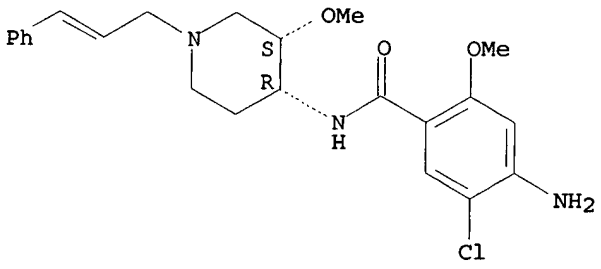
RN 86720-47-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(4-fluorophenyl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



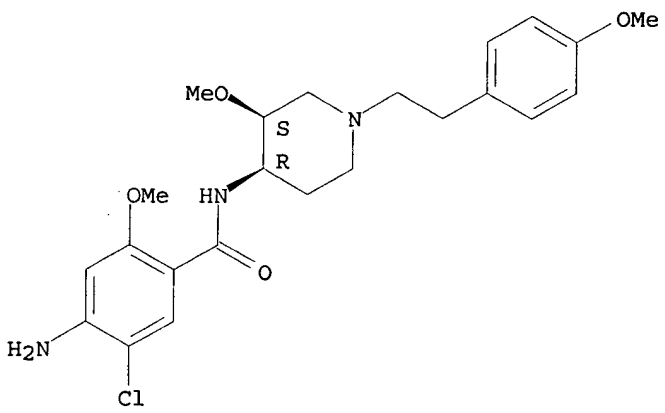
RN 86720-48-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(3-phenyl-2-propenyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.

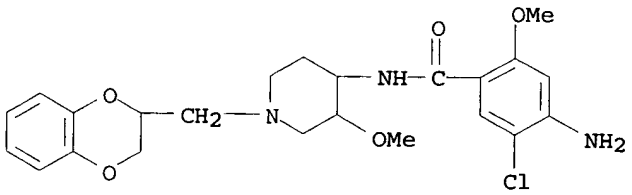


RN 86720-49-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[2-(4-methoxyphenyl)ethyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

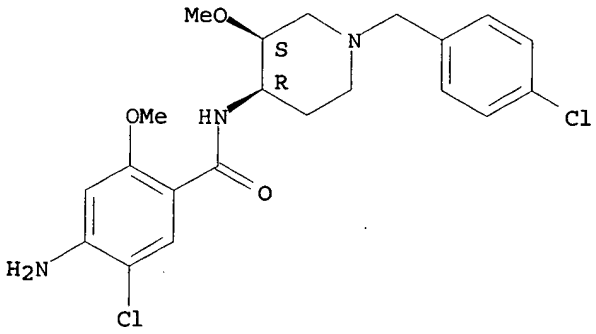


RN 86720-50-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(2,3-dihydro-1,4-benzodioxin-2-yl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)



RN 86720-51-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(4-chlorophenyl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

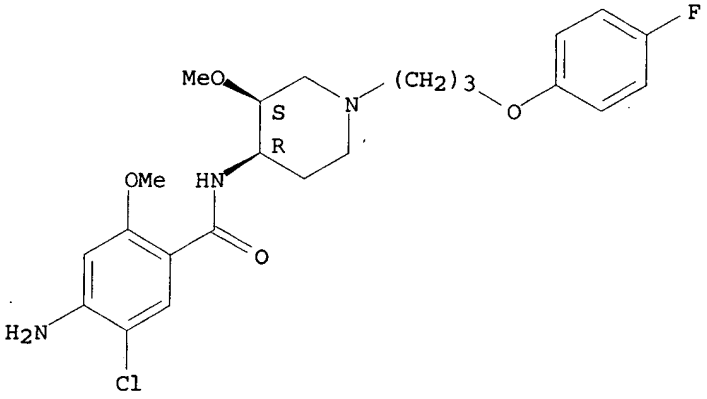


RN 86720-52-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

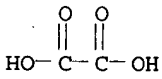
CRN 81098-60-4
CMF C23 H29 Cl F N3 O4

Relative stereochemistry.



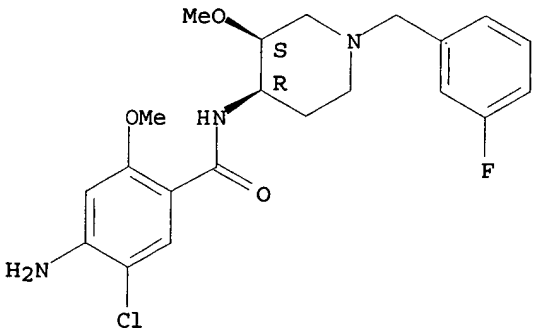
CM 2

CRN 144-62-7
CMF C2 H2 O4



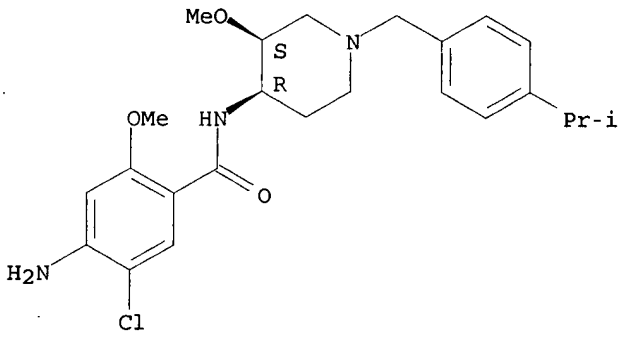
RN 86720-53-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(3-fluorophenyl)methyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



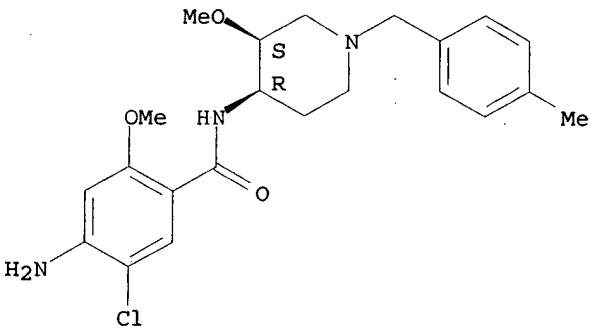
RN 86720-54-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[[4-(1-methylethyl)phenyl]methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



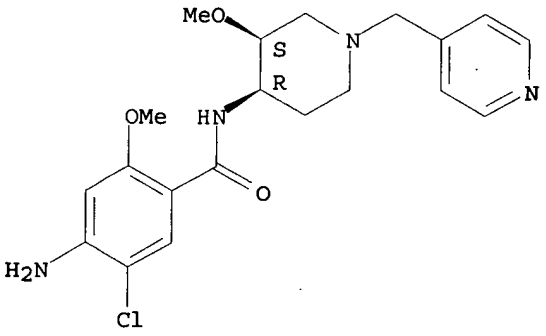
RN 86720-55-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(4-methylphenyl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86720-56-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(4-pyridinylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

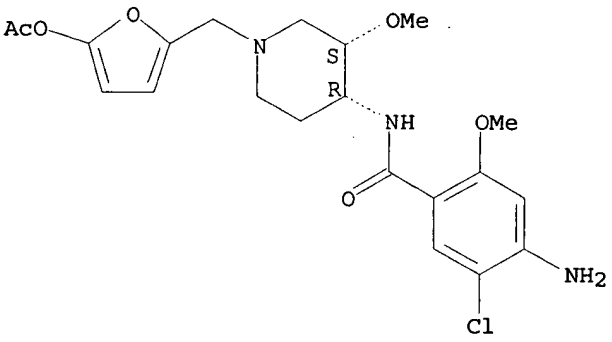
Relative stereochemistry.



RN 86720-57-2 HCAPLUS
CN Benzamide, N-[1-[[5-(acetyloxy)-2-furanyl]methyl]-3-methoxy-4-piperidinyl]-4-amino-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX

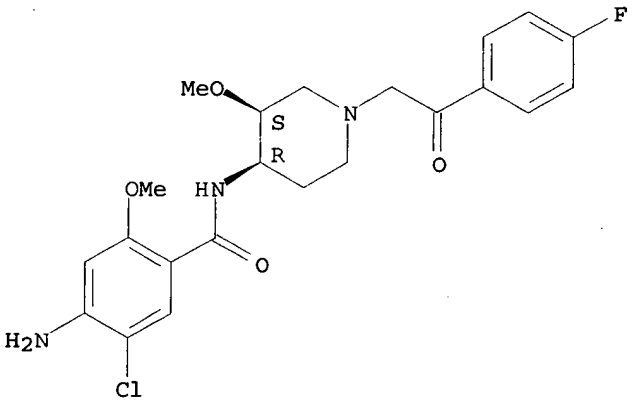
NAME)

Relative stereochemistry.



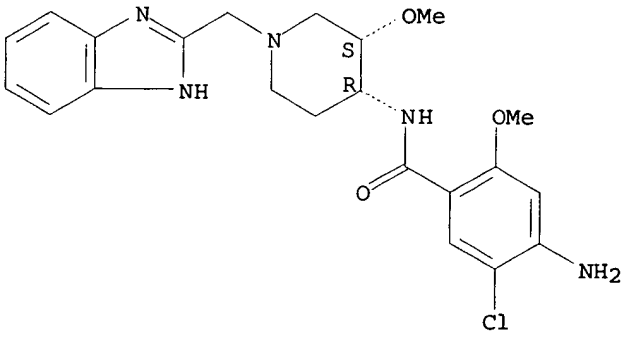
RN 86720-58-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(4-fluorophenyl)-2-oxoethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



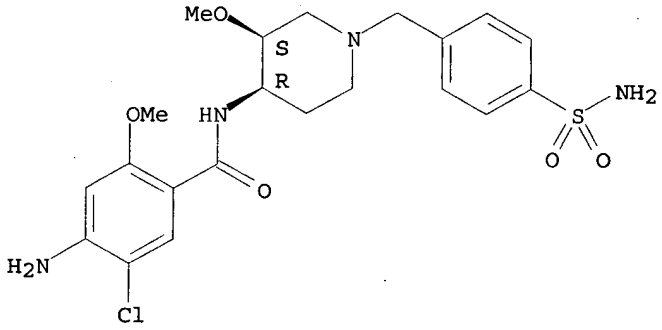
RN 86720-59-4 HCAPLUS
CN Benzamide, 4-amino-N-[1-(1H-benzimidazol-2-ylmethyl)-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86720-60-7 HCAPLUS
CN Benzamide, 4-amino-N-[1-[[4-(aminosulfonyl)phenyl]methyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

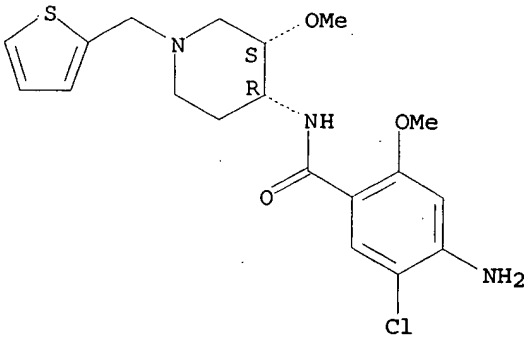
Relative stereochemistry.



● HCl

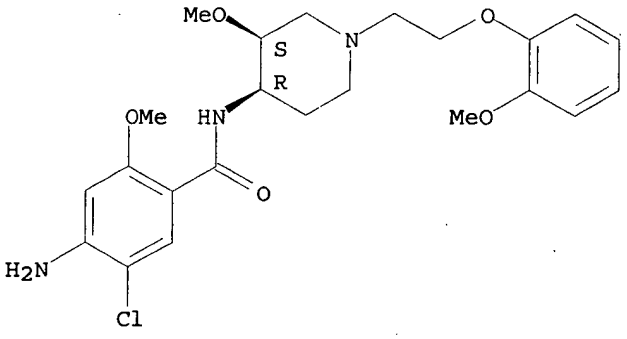
RN 86720-61-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-thienylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

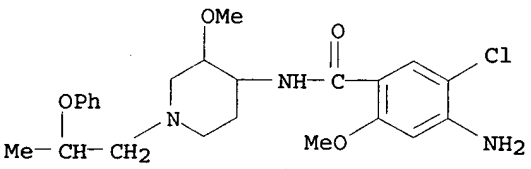


RN 86720-62-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[2-(2-methoxyphenoxy)ethyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

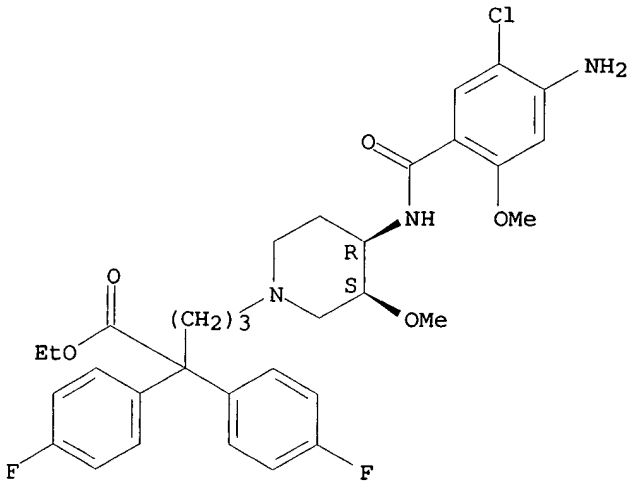


RN 86720-63-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-phenoxypropyl)-4-piperidinyl]- (9CI) (CA INDEX NAME)



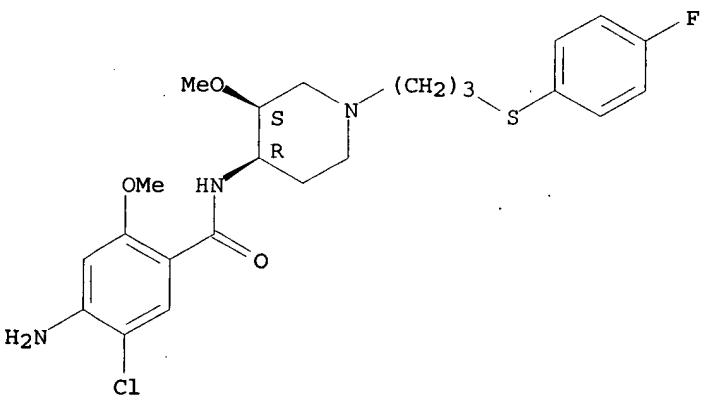
RN 86720-65-2 HCAPLUS
CN 1-Piperidinepentanoic acid, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-α,α-bis(4-fluorophenyl)-3-methoxy-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



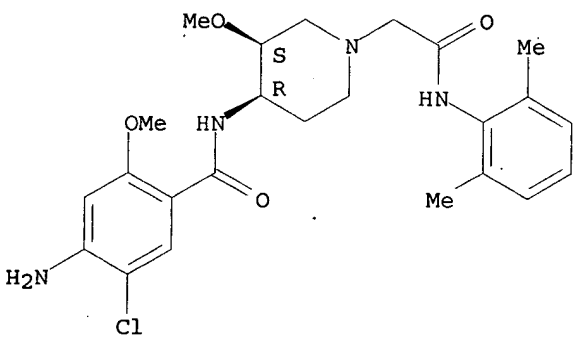
RN 86720-66-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-[(4-fluorophenyl)thio]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



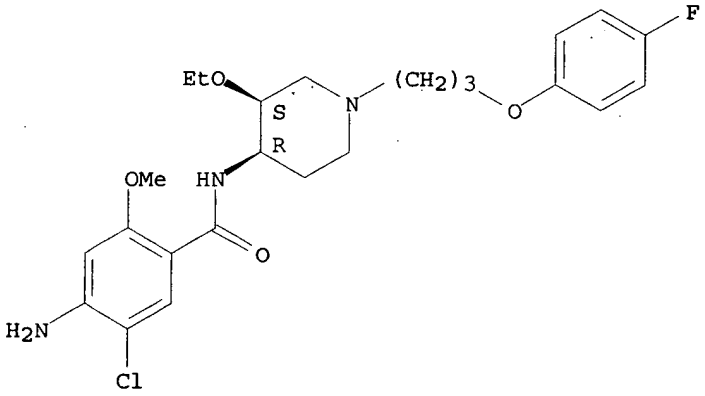
RN 86720-67-4 HCAPLUS
CN 1-Piperidineacetamide, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-N-(2,6-dimethylphenyl)-3-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



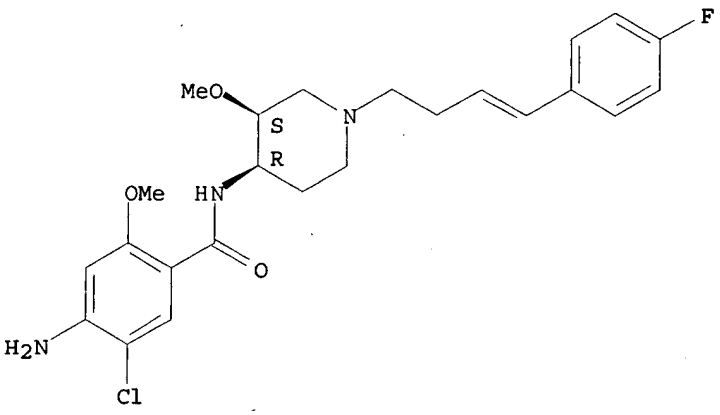
RN 86720-68-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-ethoxy-1-[3-(4-fluorophenoxy)propyl]-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



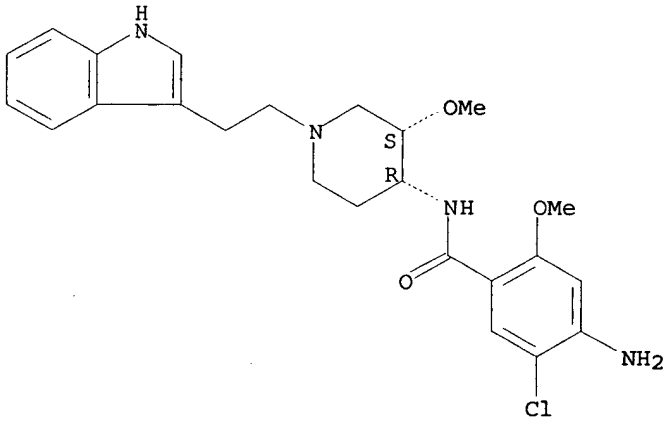
RN 86720-69-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenyl)-3-butenyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry unknown.



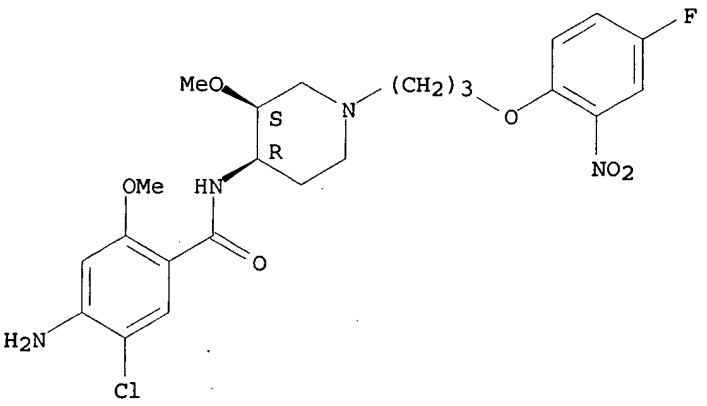
RN 86720-70-9 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-(1H-indol-3-yl)ethyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



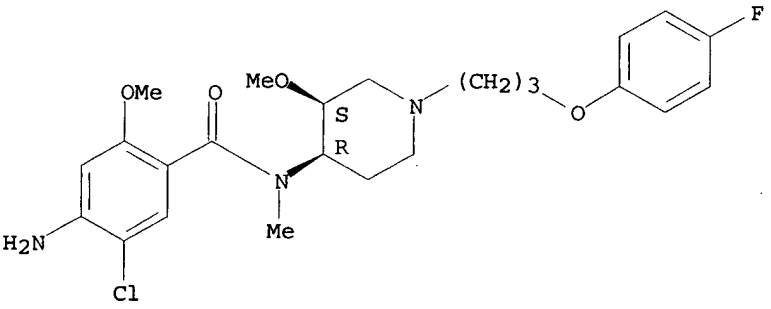
RN 86720-71-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluoro-2-nitrophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 86720-72-1 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-N-methyl-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

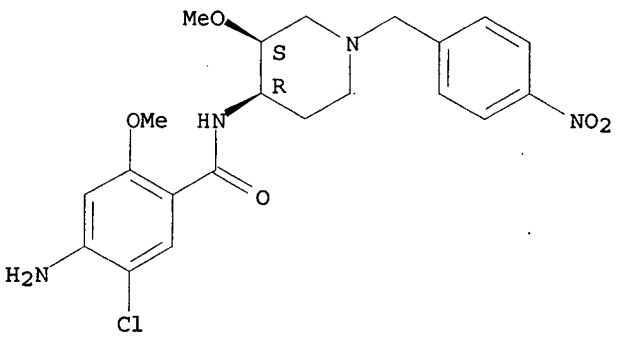
Relative stereochemistry.



● HCl

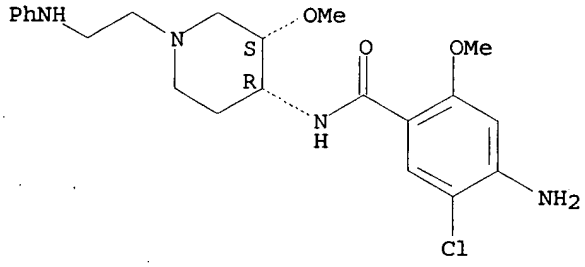
RN 86720-73-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[(4-nitrophenyl)methyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



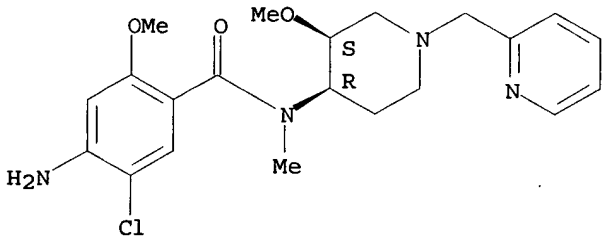
RN 86720-74-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[2-(phenylamino)ethyl]-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



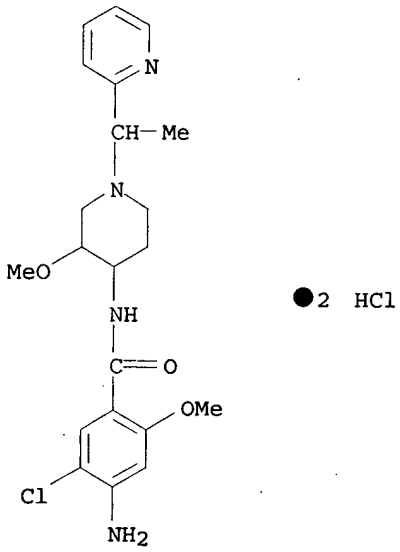
RN 86720-75-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(2-pyridinylmethyl)-4-piperidinyl]-N-methyl-, dihydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



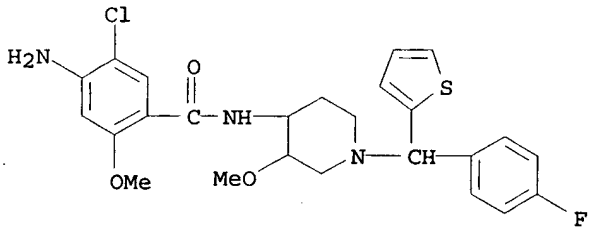
●2 HCl

RN 86720-76-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-[1-(2-pyridinyl)ethyl]-4-piperidinyl]-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

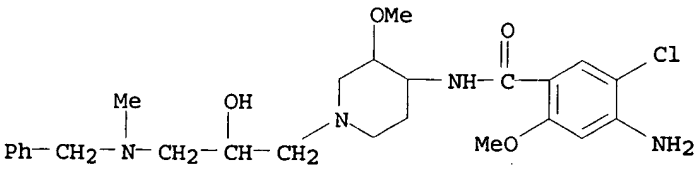
RN 86720-77-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[(4-fluorophenyl)-2-thienylmethyl]-3-methoxy-4-piperidinyl]-2-methoxy- (9CI) (CA INDEX NAME)



RN 86729-78-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[2-hydroxy-3-[methyl(phenylmethyl)amino]propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, ethanedioate (1:2) (salt) (9CI) (CA INDEX NAME)

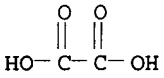
CM 1

CRN 86729-77-3
CMF C25 H35 Cl N4 O4



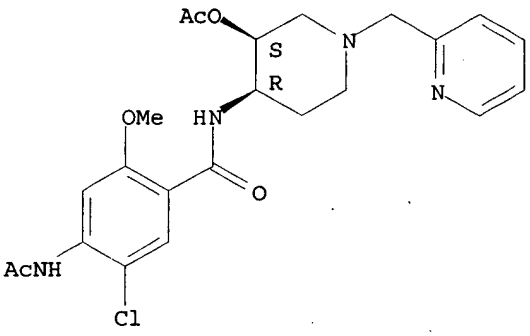
CM 2

CRN 144-62-7
CMF C2 H2 O4



RN 86848-63-7 HCAPLUS
CN Benzamide, 4-(acetylamino)-N-[3-(acetyloxy)-1-(2-pyridinylmethyl)-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

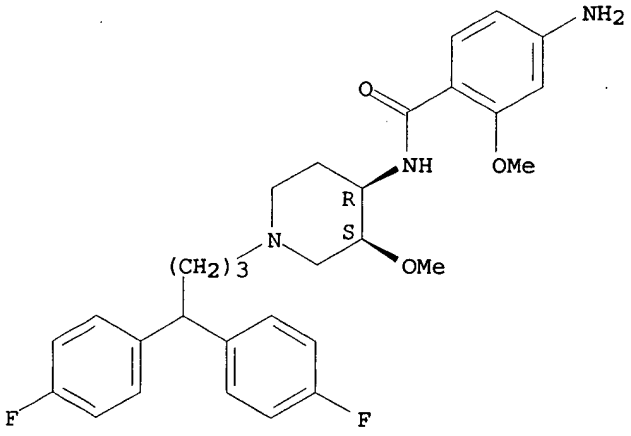


RN 104466-82-2 HCAPLUS
CN Benzamide, 4-amino-N-[(3R,4S)-1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-2-methoxy-, rel-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

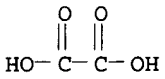
CRN 104466-81-1
CMF C30 H35 F2 N3 O3

Relative stereochemistry.



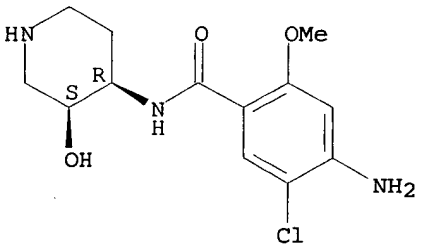
CM 2

CRN 144-62-7
CMF C2 H2 O4



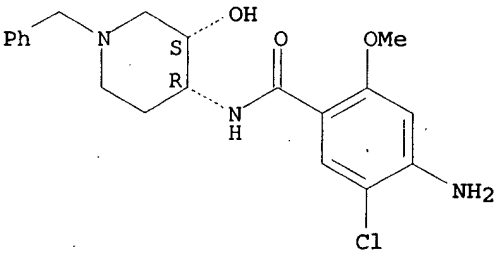
RN 104860-19-7 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-(3-hydroxy-4-piperidinyl)-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



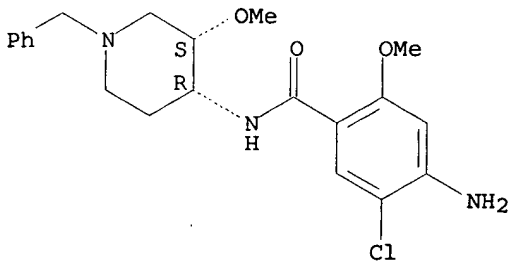
RN 104860-57-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(phenylmethyl)-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



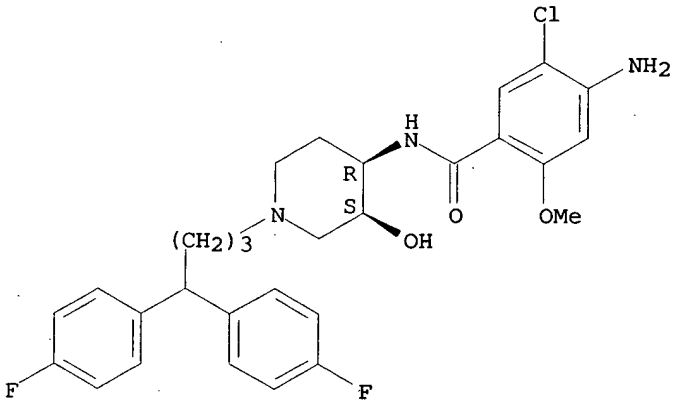
RN 104860-58-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



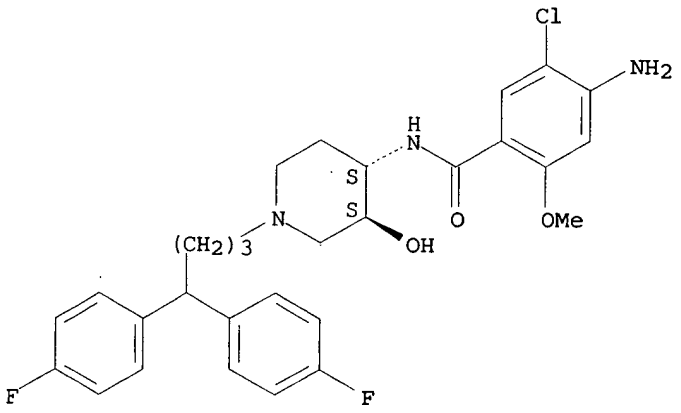
RN 104860-59-5 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-5-chloro-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 104860-60-8 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-hydroxy-4-piperidinyl]-5-chloro-2-methoxy-, monohydrochloride, trans- (9CI) (CA INDEX NAME)

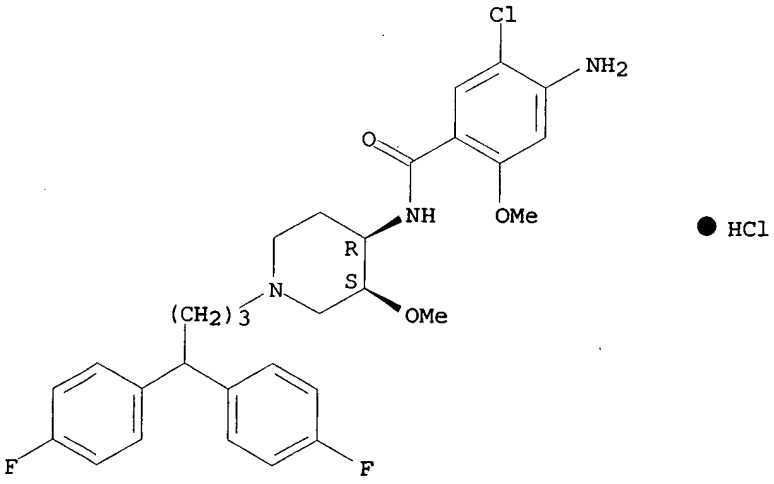
Relative stereochemistry.



● HCl

RN 104860-61-9 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, monohydrochloride, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



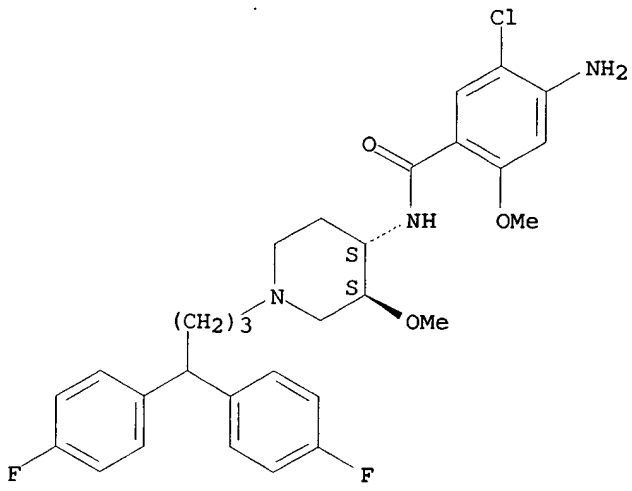
● HCl

RN 104860-63-1 HCAPLUS
CN Benzamide, 4-amino-N-[1-[4,4-bis(4-fluorophenyl)butyl]-3-methoxy-4-piperidinyl]-5-chloro-2-methoxy-, trans-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

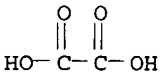
CRN 104860-62-0
CMF C30 H34 Cl F2 N3 O3

Relative stereochemistry.



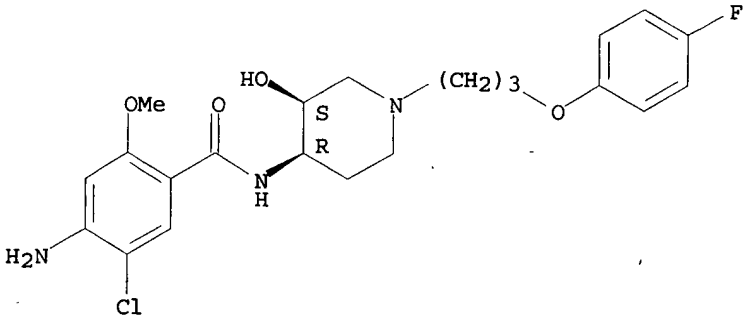
CM 2

CRN 144-62-7
CMF C2 H2 O4



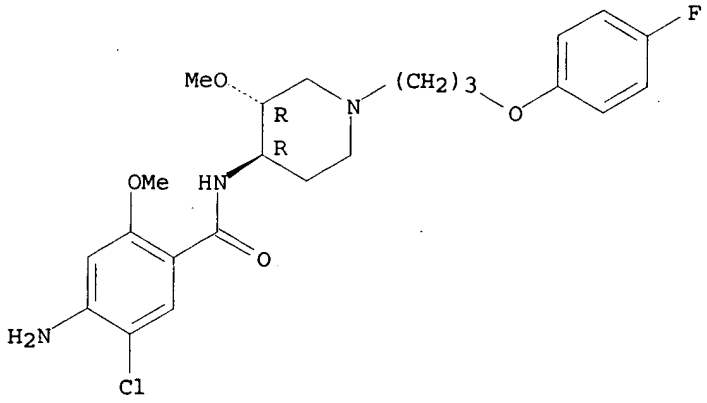
RN 104860-64-2 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[(3R,4S)-1-[3-(4-fluorophenoxy)propyl]-3-hydroxy-4-piperidinyl]-2-methoxy-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



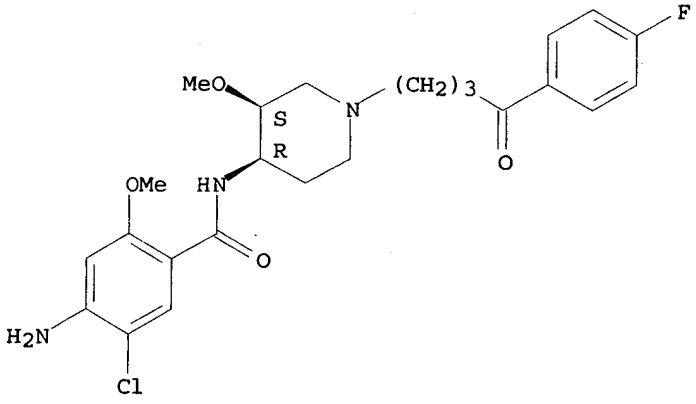
RN 104860-66-4 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.



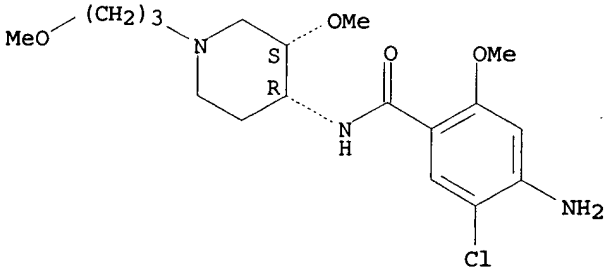
RN 104860-67-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[4-(4-fluorophenyl)-4-oxobutyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 104860-68-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(3-methoxypropyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

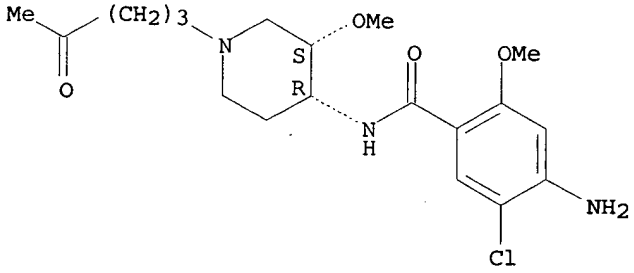
Relative stereochemistry.



RN 104860-69-7 HCAPLUS

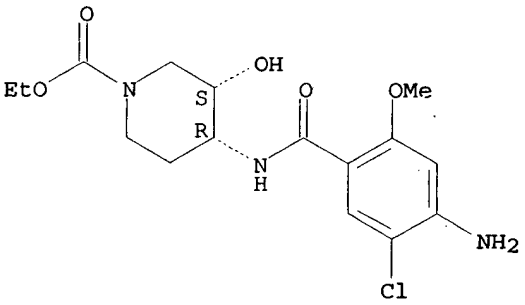
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(4-oxopentyl)-4-piperidinyl]-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



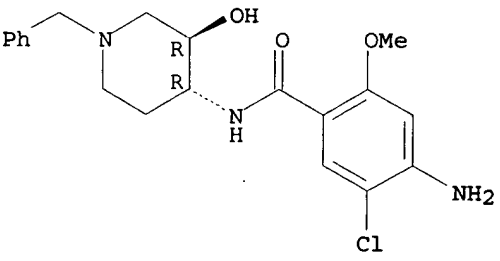
RN 104889-57-8 HCAPLUS
CN 1-Piperidinecarboxylic acid, 4-[(4-amino-5-chloro-2-methoxybenzoyl)amino]-3-hydroxy-, ethyl ester, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 104889-60-3 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[3-hydroxy-1-(phenylmethyl)-4-piperidinyl]-2-methoxy-, trans- (9CI) (CA INDEX NAME)

Relative stereochemistry.

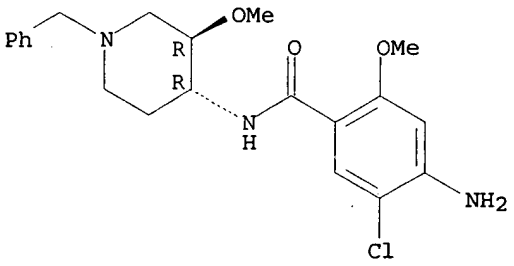


RN 104889-62-5 HCAPLUS
CN Benzamide, 4-amino-5-chloro-2-methoxy-N-[3-methoxy-1-(phenylmethyl)-4-piperidinyl]-, trans-, ethanedioate (1:1) (9CI) (CA INDEX NAME)

CM 1

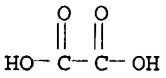
CRN 104889-61-4
CMF C21 H26 Cl N3 O3

Relative stereochemistry.



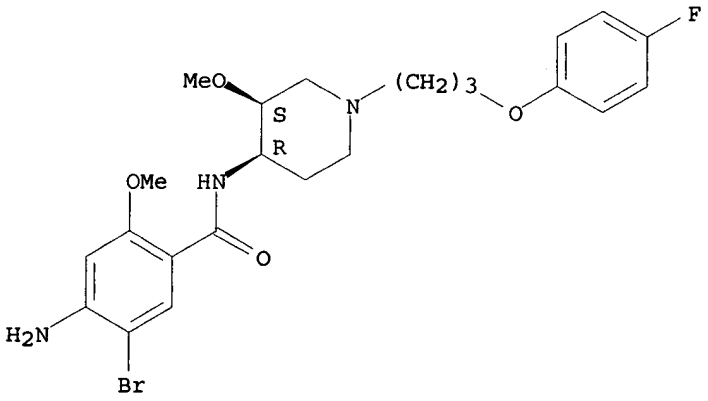
CM 2

CRN 144-62-7
CMF C2 H2 O4



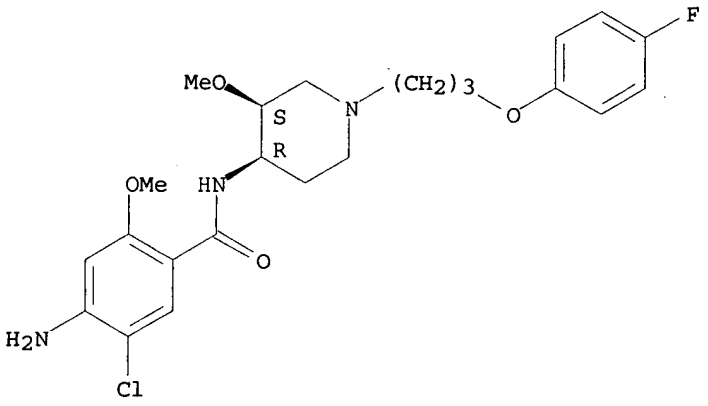
RN 105249-04-5 HCAPLUS
CN Benzamide, 4-amino-5-bromo-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 105249-07-8 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, hydrochloride, cis- (9CI) (CA INDEX NAME)

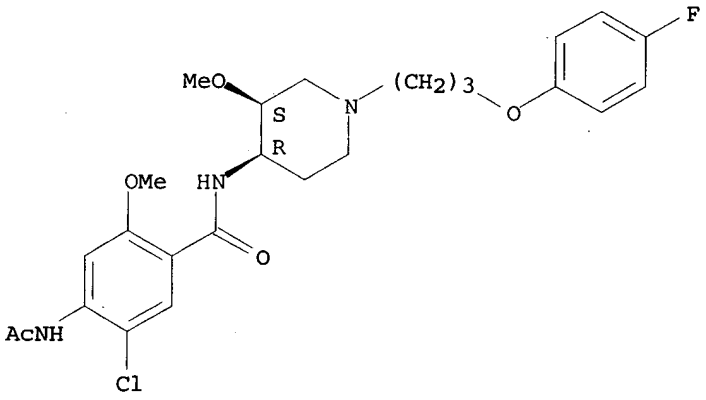
Relative stereochemistry.



●x HCl

RN 137472-66-3 HCAPLUS
CN Benzamide, 4-(acetylamino)-5-chloro-N-[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

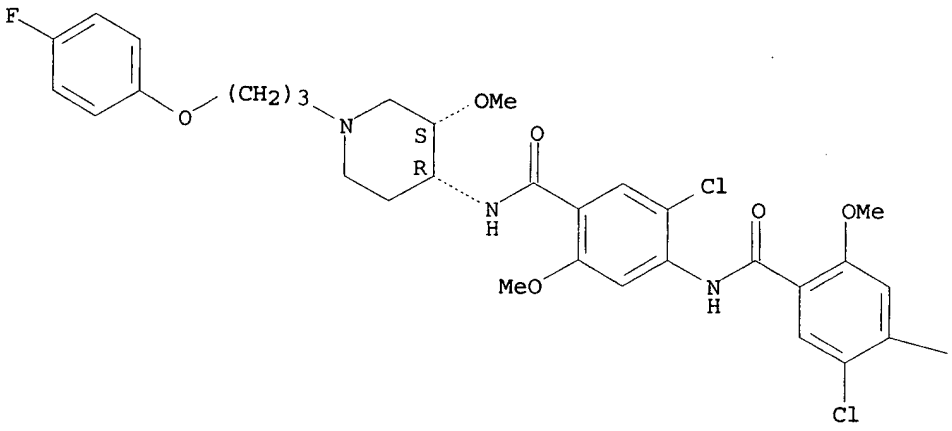
Relative stereochemistry.



RN 182008-76-0 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-[2-chloro-4-[[[1-[3-(4-fluorophenoxy)propyl]-3-methoxy-4-piperidinyl]amino]carbonyl]-5-methoxyphenyl]-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.

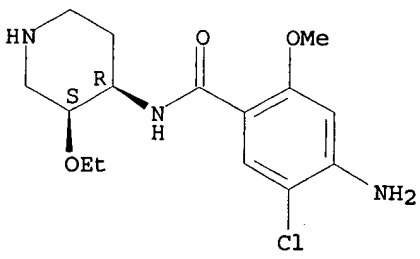
PAGE 1-A



PAGE 1-B

IT **86718-43-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and gastric motility activity of)
RN 86718-43-6 HCAPLUS
CN Benzamide, 4-amino-5-chloro-N-(3-ethoxy-4-piperidinyl)-2-methoxy-, cis- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IC C07D211-58; C07D401-06; C07D405-06; C07D409-06; C07D413-06; C07D471-04; C07D407-12; A61K031-00
CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 63
IT 869-24-9 1716-42-3 **5081-87-8** 6959-48-4 15257-81-5 73763-95-8 86721-12-2
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(alkylation by, of piperidine derivs.)
IT 98-17-9 118-93-4 366-69-8 371-41-5 727-31-1 2559-64-0 **83863-69-8** 85817-03-4 85817-06-7 86717-95-5
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(alkylation of)
IT 54-96-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with Me isothiocyanate)
IT 504-63-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with difluoronitrobenzene)
IT 288-32-4, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with fluorobenzoate)
IT 39262-24-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with fluorobenzoylpiperidine)
IT 451-46-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with imidazole)
IT 556-61-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with pyridinediamine)
IT **81098-60-4P 81098-60-4P 83863-69-8P**
83863-70-1P 86717-82-0P 86717-86-4P 86717-87-5P
86717-88-6P 86717-89-7P 86718-39-0P 86718-41-4P
86718-44-7P 86718-45-8P 86718-46-9P
86718-47-0P **86718-48-1P** 86718-49-2P
86718-50-5P 86718-51-6P 86718-52-7P
86718-54-9P 86718-55-0P 86718-56-1P
86718-57-2P 86718-58-3P 86718-59-4P
86718-60-7P 86718-62-9P 86718-63-0P
86718-64-1P 86718-65-2P 86718-66-3P
86718-69-6P 86718-70-9P 86718-71-0P
86718-72-1P 86718-73-2P 86718-75-4P
86718-76-5P 86718-87-8P 86718-88-9P
86718-89-0P 86718-90-3P **86718-91-4P**
86718-92-5P 86718-93-6P **86718-97-0P**
86718-98-1P 86718-99-2P 86719-02-0P
86719-03-1P **86719-04-2P 86719-05-3P**
86719-06-4P 86719-07-5P 86719-08-6P
86719-09-7P 86719-10-0P 86719-12-2P
86719-13-3P 86719-14-4P 86719-15-5P
86719-16-6P 86719-17-7P **86719-18-8P** 86719-21-3P
86719-26-8P 86719-27-9P 86719-29-1P
86719-30-4P 86719-32-6P **86719-34-8P** 86719-35-9P
86719-36-0P 86719-37-1P 86719-38-2P
86719-39-3P 86719-40-6P 86719-41-7P
86719-42-8P 86719-43-9P 86719-44-0P
86719-45-1P 86719-46-2P 86719-47-3P
86719-48-4P 86719-49-5P 86719-51-9P
86719-52-0P 86719-53-1P 86719-55-3P
86719-56-4P 86719-57-5P **86719-58-6P**
86719-59-7P 86719-60-0P 86719-61-1P

86719-62-2P 86719-64-4P **86719-65-5P**
86719-66-6P 86719-67-7P 86719-68-8P
86719-69-9P 86719-70-2P 86719-71-3P
86719-72-4P 86719-73-5P 86719-74-6P
86719-75-7P 86719-76-8P 86719-77-9P
86719-78-0P 86719-79-1P 86719-80-4P 86719-81-5P
86719-82-6P **86719-83-7P 86719-84-8P**
86719-85-9P 86719-87-1P **86719-88-2P**
86719-89-3P 86719-90-6P 86719-91-7P
86719-92-8P 86719-93-9P 86719-94-0P
86719-95-1P 86719-96-2P 86719-97-3P
86719-98-4P 86719-99-5P 86720-00-5P
86720-01-6P 86720-02-7P 86720-03-8P **86720-04-9P**
86720-05-0P 86720-06-1P 86720-07-2P
86720-08-3P 86720-09-4P 86720-10-7P
86720-11-8P 86720-12-9P 86720-13-0P
86720-14-1P 86720-15-2P 86720-16-3P
86720-17-4P 86720-18-5P 86720-19-6P
86720-20-9P 86720-21-0P 86720-22-1P **86720-24-3P**
86720-25-4P 86720-26-5P 86720-27-6P
86720-28-7P 86720-29-8P 86720-30-1P
86720-31-2P 86720-32-3P 86720-33-4P 86720-34-5P
86720-35-6P 86720-36-7P 86720-37-8P 86720-38-9P
86720-39-0P 86720-41-4P 86720-42-5P
86720-43-6P 86720-44-7P **86720-45-8P**
86720-47-0P 86720-48-1P 86720-49-2P
86720-50-5P 86720-51-6P 86720-52-7P
86720-53-8P 86720-54-9P 86720-55-0P
86720-56-1P 86720-57-2P 86720-58-3P
86720-59-4P 86720-60-7P 86720-61-8P
86720-62-9P 86720-63-0P 86720-65-2P
86720-66-3P 86720-67-4P 86720-68-5P
86720-69-6P 86720-70-9P 86720-71-0P
86720-72-1P 86720-73-2P 86720-74-3P
86720-75-4P 86720-76-5P 86720-77-6P
86729-75-1P 86729-76-2P **86729-78-4P**
86848-63-7P 86848-64-8P 86848-65-9P 86848-67-1P
104466-82-2P 104860-19-7P 104860-57-3P
104860-58-4P 104860-59-5P 104860-60-8P
104860-61-9P 104860-63-1P 104860-64-2P
104860-66-4P 104860-67-5P 104860-68-6P
104860-69-7P 104889-57-8P 104889-60-3P
104889-62-5P 105249-04-5P 105249-07-8P
137472-66-3P 182008-76-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(preparation and gastric motility activity of)

IT **86718-43-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and gastric motility activity of)

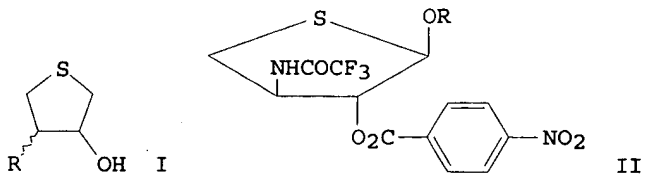
IT 104860-35-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reductive **condensation** of, with bis(fluorophenyl)butyraldehyde)

IT 86718-24-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(reductive **condensation** of, with piperidine derivative)

L177 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1982:456150 Document No. 97:56150 Thio sugars. Part 8. Some

derivatives of 3-amino-3-deoxy-4-thio-DL-threofuranose suitable for synthesis of adriamycin analogs. Jones, John O.; McElhinney, R. Stanley (Lab. Med. Res. Counc. Ireland, Trinity Coll., Dublin, 2, Ire.). Journal of Chemical Research, Synopses (5), 116 (English) 1982. CODEN: JRPSDC. ISSN: 0308-2342.

GI

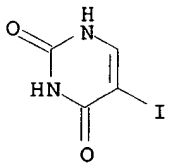


AB Using standard procedures some derivs. of the title sugar were prepared E.g., the azidothiofuran I (R = β-N3) was prepared in 4 steps from I (R = α-OH), and underwent reduction, trifluoroacetylation/esterification, and alkoxylation to give thiofuranoses II (R = Ac, CHMe2, cyclohexyl).

IT **696-07-1**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(condensation reaction of, with acetoxythiofuranose)

RN 696-07-1 HCAPLUS

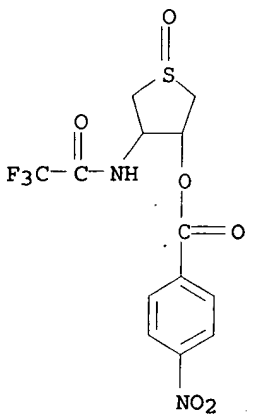
CN 2,4(1H,3H)-Pyrimidinedione, 5-iodo- (9CI) (CA INDEX NAME)



IT **82480-23-7P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and acetylation of)

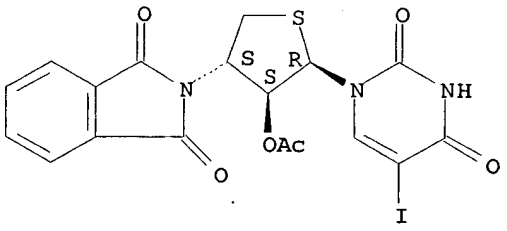
RN 82480-23-7 HCAPLUS

CN Acetamide, 2,2,2-trifluoro-N-[tetrahydro-4-[(4-nitrobenzoyl)oxy]-1-oxido-3-thienyl]-, (1α,3α,4β)- (9CI) (CA INDEX NAME)



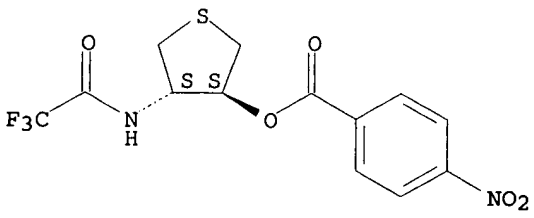
IT **82480-17-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and intramol. cyclization of)
RN 82480-17-9 HCAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 2-[4-(acetyloxy)-5-(3,4-dihydro-5-iodo-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-3-thienyl]-, (3α,4β,5β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT **82480-22-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and oxidation of)
RN 82480-22-6 HCAPLUS
CN Acetamide, 2,2,2-trifluoro-N-[tetrahydro-4-[(4-nitrobenzoyl)oxy]-3-thienyl]-, trans- (9CI) (CA INDEX NAME)

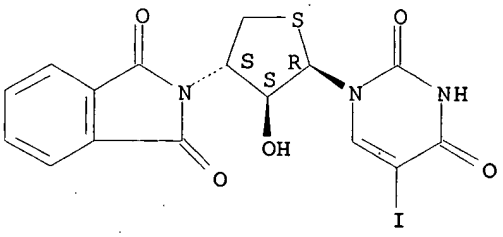
Relative stereochemistry.



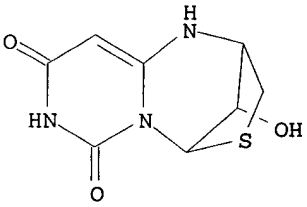
IT **82480-18-0P 82480-19-1P 82480-24-8P**

82480-25-9P 82480-26-0P 82510-64-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 82480-18-0 HCAPLUS
CN 1H-Isoindole-1,3(2H)-dione, 2-[5-(3,4-dihydro-5-iodo-2,4-dioxo-1(2H)-pyrimidinyl)tetrahydro-4-hydroxy-3-thienyl]-, (3α,4β,5β)- (9CI) (CA INDEX NAME)

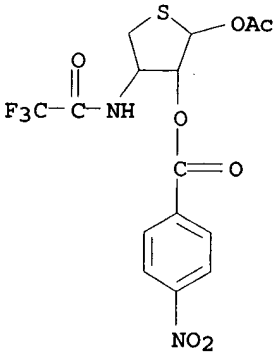
Relative stereochemistry.



RN 82480-19-1 HCAPLUS
CN 2,5-Methano-5H-pyrimido[1,6-c][1,3,5]thiadiazepine-7,9(1H,8H)-dione, 2,3-dihydro-11-hydroxy-, (2α,5α,11R*)- (9CI) (CA INDEX NAME)

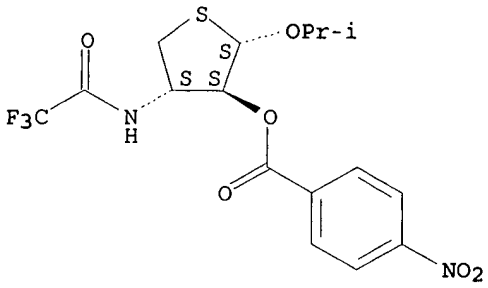


RN 82480-24-8 HCAPLUS
CN Acetamide, N-[5-(acetyloxy)tetrahydro-4-[(4-nitrobenzoyl)oxy]-3-thienyl]-2,2,2-trifluoro- (9CI) (CA INDEX NAME)



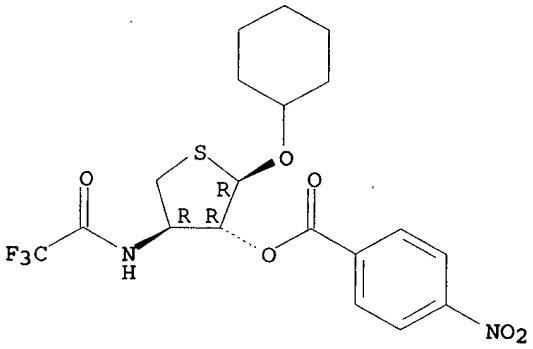
RN 82480-25-9 HCAPLUS
CN Acetamide, 2,2,2-trifluoro-N-[tetrahydro-5-(1-methylethoxy)-4-[(4-nitrobenzoyl)oxy]-3-thienyl]-, (3α,4β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



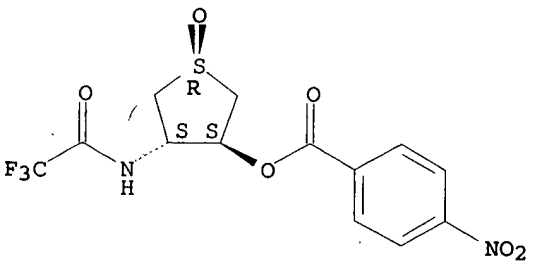
RN 82480-26-0 HCAPLUS
CN Acetamide, N-[5-(cyclohexyloxy)tetrahydro-4-[(4-nitrobenzoyl)oxy]-3-thienyl]-2,2,2-trifluoro-, (3α,4β,5α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 82510-64-3 HCAPLUS
CN Acetamide, 2,2,2-trifluoro-N-[tetrahydro-4-[(4-nitrobenzoyl)oxy]-1-oxido-3-thienyl]-, (1α,3β,4α)- (9CI) (CA INDEX NAME)

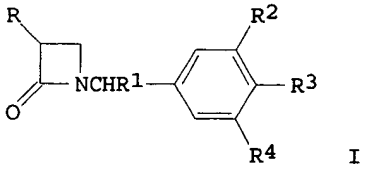
Relative stereochemistry.



CC 33-3 (Carbohydrates)
IT **696-07-1**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(condensation reaction of, with acetoxythiofuranose)

IT 82480-02-2P 82480-14-6P **82480-23-7P** 82510-61-0P
82510-63-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and acetylation of)
IT 82480-15-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and **condensation** reaction of, with iodouracil)
IT **82480-17-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and intramol. cyclization of)
IT 82479-99-0P 82480-10-2P 82480-12-4P **82480-22-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); **RACT (Reactant or reagent)**
(preparation and oxidation of)
IT 52693-39-7P 82479-95-6P 82480-01-1P 82480-03-3P
82480-06-6P 82480-09-9P 82480-11-3P 82480-13-5P
82480-16-8P **82480-18-0P 82480-19-1P**
82480-24-8P 82480-25-9P 82480-26-0P
82480-27-1P 82510-62-1P **82510-64-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

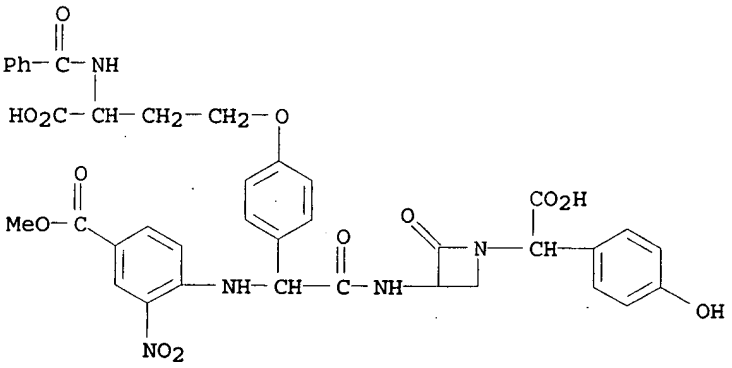
L177 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
1981:65461 Document No. 94:65461 4-Unsubstituted azetidinone derivatives. Hashimoto, Masashi; Hemmi, Keiji; Kamiya, Takashi; Komori, Tadaaki; Nakaguti, Osamu; Saito, Yoshihisa; Shiokawa, Youichi; Takasugi, Hisahi; Takaya, Takao; Teraji, Tsutomu (Fujisawa Pharmaceutical Co., Ltd., Japan). U.S. US 4207234 19800610, 130 pp. Cont.-in-part of U.S. Ser. No. 694,891, abandoned. (English). CODEN: USXXAM. APPLICATION: US 1977-858375 19771207.
GI



I

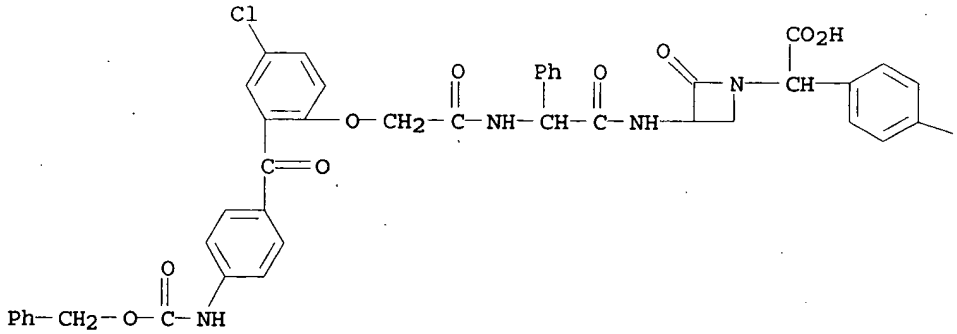
AB Lactacillanic acids and analogs I (R = NH2, acylamino, benzenesulfonamido; R1 = CO2H, pharmaceutically acceptable salt or ester derivative of CO2H; R2 = H, NH2, NO2, halo, alkoxy, alkylthio; R3 = H, OH, alkyl, alkylthio, OCH2Ph; R4 = H, Halo, alkoxy, alkylthio), which showed bactericidal activity, were prepared Thus, 3-aminolactacillanic acid reacted with PhCH2COCl in water-Me2CO containing NaHCO3 to yield I (R = PhCH2CONH, R1 = CO2H, R3 = OH, R2 = R4 = H).
IT **59510-73-5**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(deacylation of)
RN 59510-73-5 HCAPLUS

CN 1-Azetidineacetic acid, 3-[[[4-[3-(benzoylamino)-3-carboxypropoxy]phenyl][[4-(methoxycarbonyl)-2-nitrophenyl]amino]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



IT **75269-88-4 75269-90-8 75269-91-9**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(deprotection of)
RN 75269-88-4 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[[(phenylmethoxy)carbonyl]amino]benzoyl]phenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A

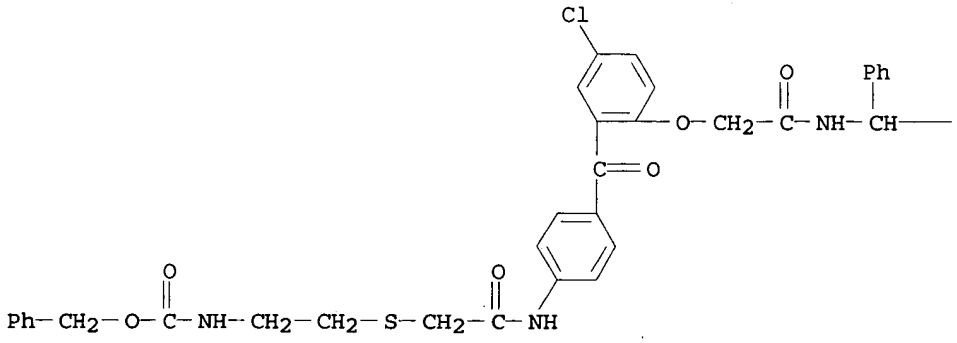


PAGE 1-B

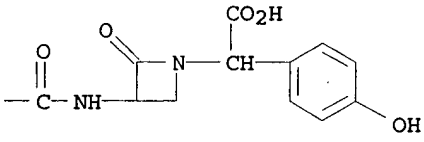
RN 75269-90-8 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[[[[2-

[[(phenylmethoxy)carbonyl]amino]ethyl]thio]acetyl]amino]benzoyl]ph
enoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-
oxo- (9CI) (CA INDEX NAME)

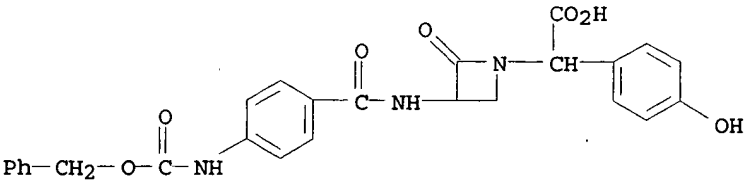
PAGE 1-A



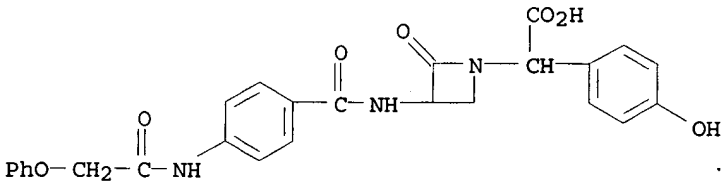
PAGE 1-B



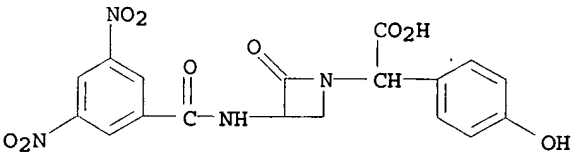
RN 75269-91-9 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-2-oxo-3-[[4-
[[(phenylmethoxy)carbonyl]amino]benzoyl]amino]- (9CI) (CA INDEX
NAME)



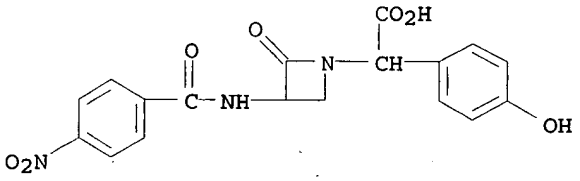
IT **59509-23-8P 59509-24-9P 59509-25-0P**
59509-30-7P 59509-38-5P 59509-39-6P
59509-56-7P 59509-99-8P 59510-56-4P
59510-61-1P 59510-73-5P 59510-74-6P
59511-32-9P 59511-33-0P 59511-34-1P
59511-54-5P 59511-62-5P 59511-79-4P
59511-83-0P 59511-91-0P 64026-69-3P
75261-03-9P 75261-04-0P 75261-10-8P
75269-85-1P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 59509-23-8 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-2-oxo-3-[[4-
[(phenoxyacetyl)amino]benzoyl]amino]- (9CI) (CA INDEX NAME)



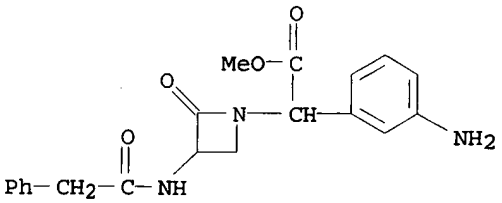
RN 59509-24-9 HCAPLUS
CN 1-Azetidineacetic acid, 3-[(3,5-dinitrobenzoyl)amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



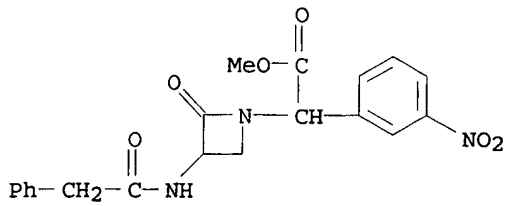
RN 59509-25-0 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-3-[(4-nitrobenzoyl)amino]-2-oxo- (9CI) (CA INDEX NAME)



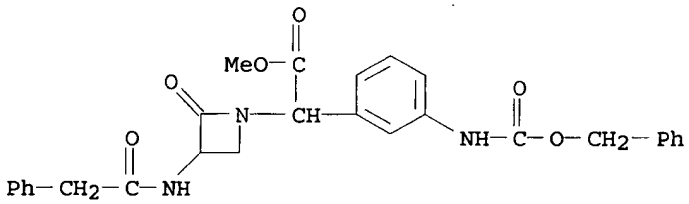
RN 59509-30-7 HCAPLUS
CN 1-Azetidineacetic acid, α-(3-aminophenyl)-2-oxo-3-[(phenylacetyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



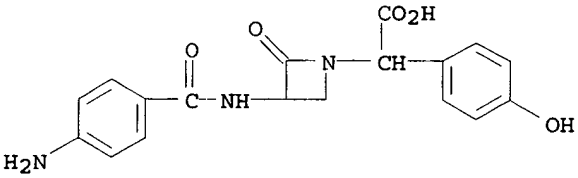
RN 59509-38-5 HCAPLUS
CN 1-Azetidineacetic acid, α-(3-nitrophenyl)-2-oxo-3-[(phenylacetyl)amino]-, methyl ester (9CI) (CA INDEX NAME)



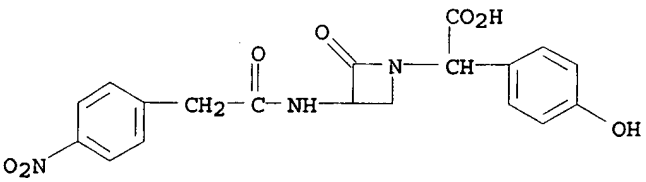
RN 59509-39-6 HCAPLUS
CN 1-Azetidineacetic acid, 2-oxo-3-[(phenylacetyl)amino]-α-[3-[[(phenylmethoxy)carbonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



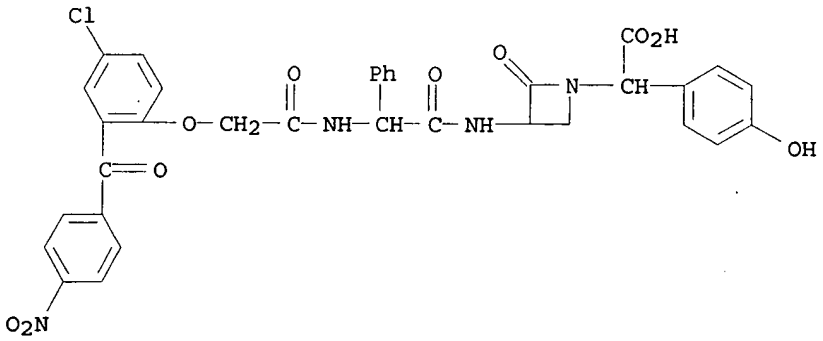
RN 59509-56-7 HCAPLUS
CN 1-Azetidineacetic acid, 3-[(4-aminobenzoyl)amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



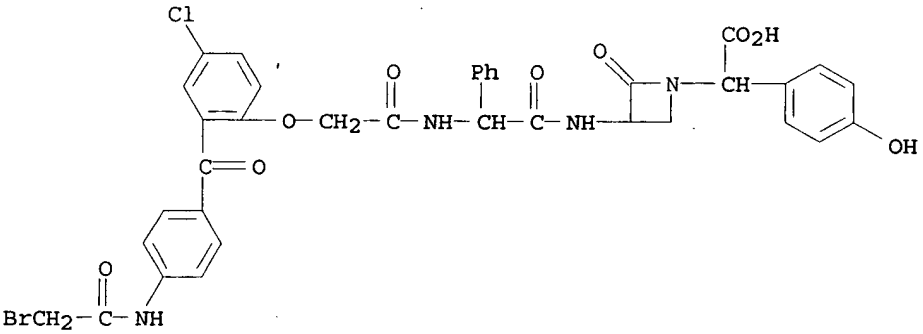
RN 59509-99-8 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-3-[[(4-nitrophenyl)acetyl]amino]-2-oxo- (9CI) (CA INDEX NAME)



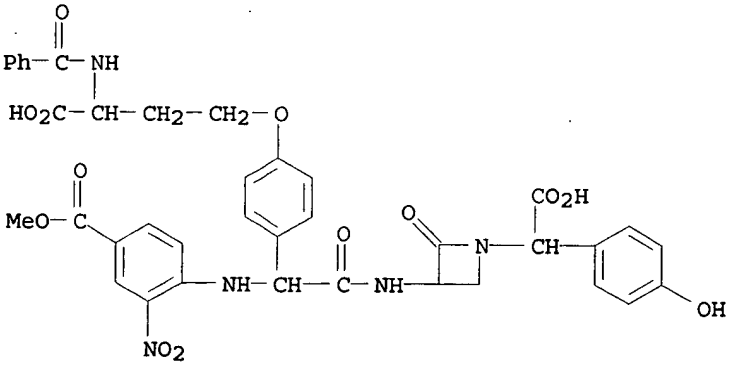
RN 59510-56-4 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-(4-nitrobenzoyl)phenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 59510-61-1 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-[4-[(bromoacetyl)amino]benzoyl]-4-chlorophenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



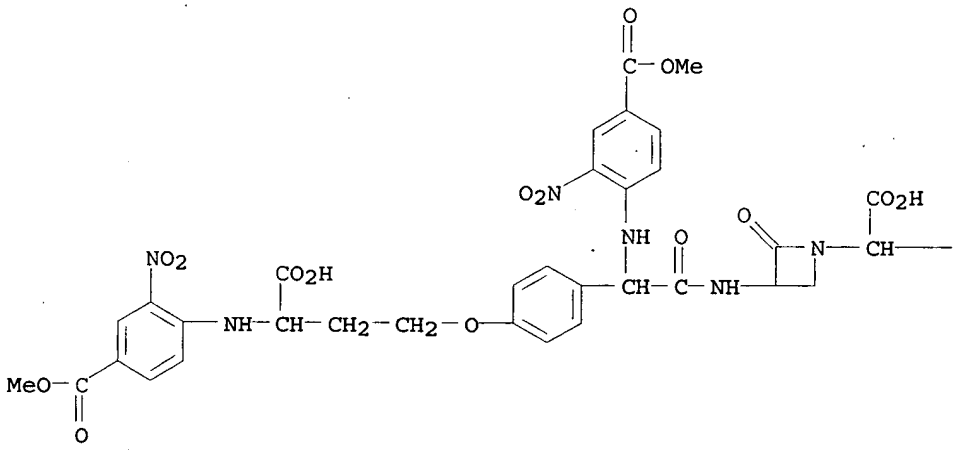
RN 59510-73-5 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[4-[3-(benzoylamino)-3-carboxypropoxy]phenyl][[4-(methoxycarbonyl)-2-nitrophenyl]amino]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



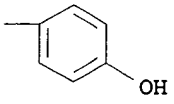
RN 59510-74-6 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[4-[3-carboxy-3-[[4-(methoxycarbonyl)-

2-nitrophenyl]amino]propoxy]phenyl][[4-(methoxycarbonyl)-2-nitrophenyl]amino]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A

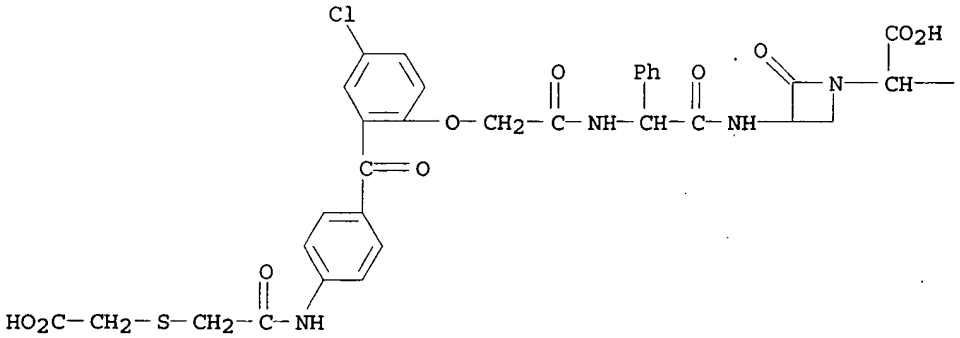


PAGE 1-B

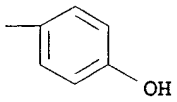


RN 59511-32-9 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-[4-[[[(carboxymethyl)thio]acetyl]amino]benzoyl]-4-chlorophenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A

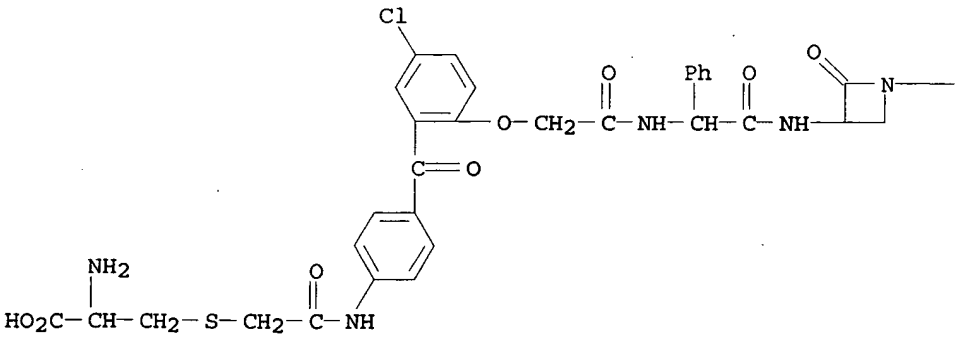


PAGE 1-B

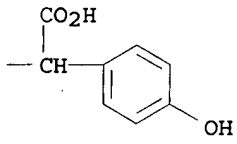


RN 59511-33-0 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-[4-[[(2-amino-2-carboxyethyl)thio]acetyl]amino]benzoyl]-4-chlorophenoxy]acetylamino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

PAGE 1-A

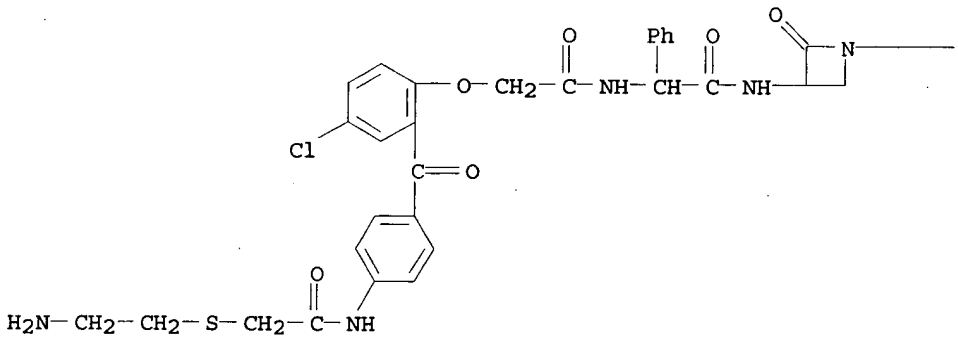


PAGE 1-B

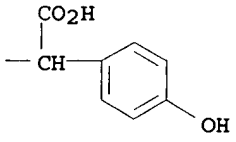


RN 59511-34-1 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-[4-[[[(2-aminoethyl)thio]acetyl]amino]benzoyl]-4-chlorophenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

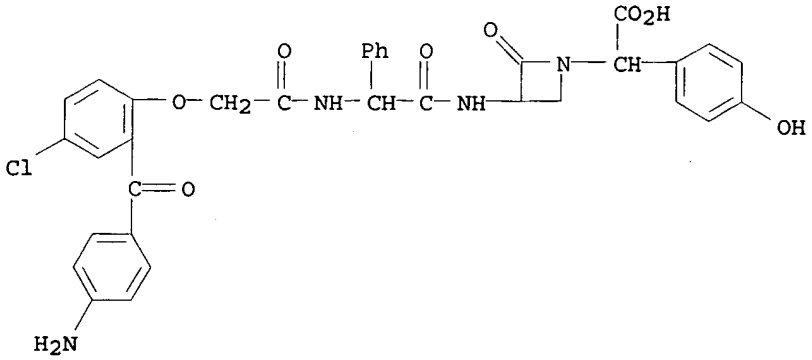
PAGE 1-A



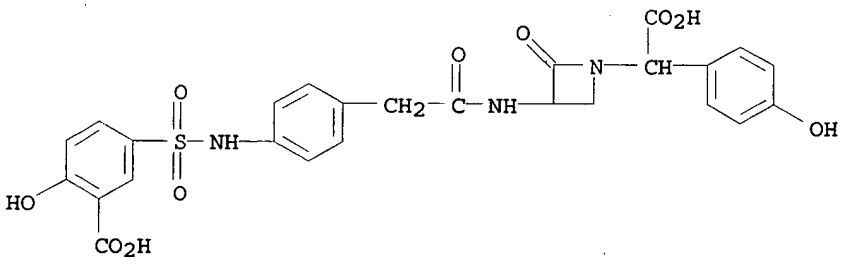
PAGE 1-B



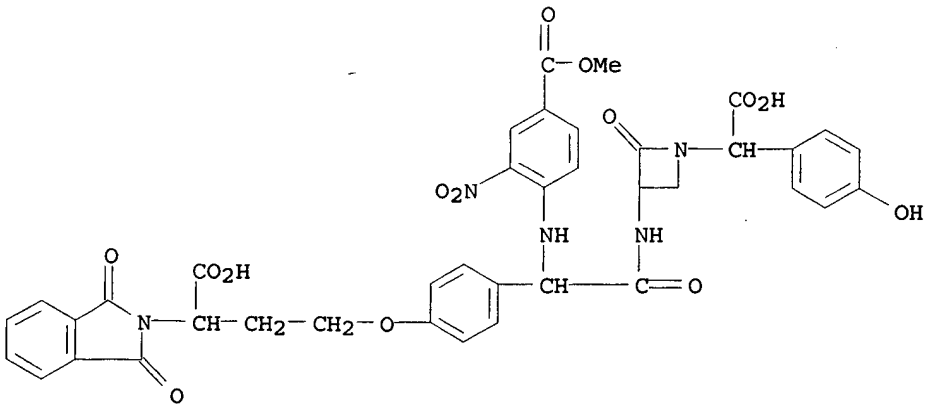
RN 59511-54-5 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-(4-aminobenzoyl)-4-chlorophenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 59511-62-5 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[4-[[(3-carboxy-4-hydroxyphenyl)sulfonyl]amino]phenyl]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

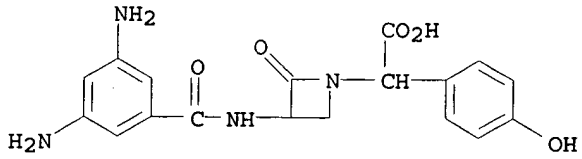


RN 59511-79-4 HCAPLUS
CN 1-Azetidineacetic acid, α-[[[4-[3-carboxy-3-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)propoxy]phenyl][[4-(methoxycarbonyl)-2-nitrophenyl]amino]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

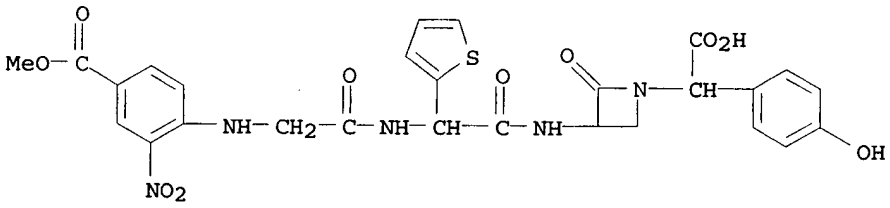


RN 59511-83-0 HCAPLUS
CN 1-Azetidineacetic acid, 3-[(3,5-diaminobenzoyl)amino]-α-(4-

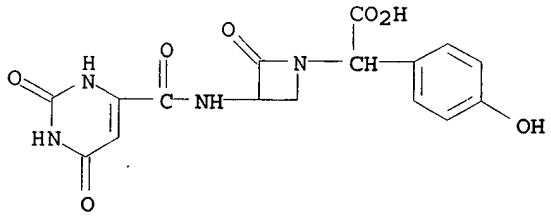
hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 59511-91-0 HCAPLUS
CN Glycinamide, N-[4-(methoxycarbonyl)-2-nitrophenyl]glycyl-N-[1-[carboxy(4-hydroxyphenyl)methyl]-2-oxo-3-azetidinyl]-2-(2-thienyl)- (9CI) (CA INDEX NAME)

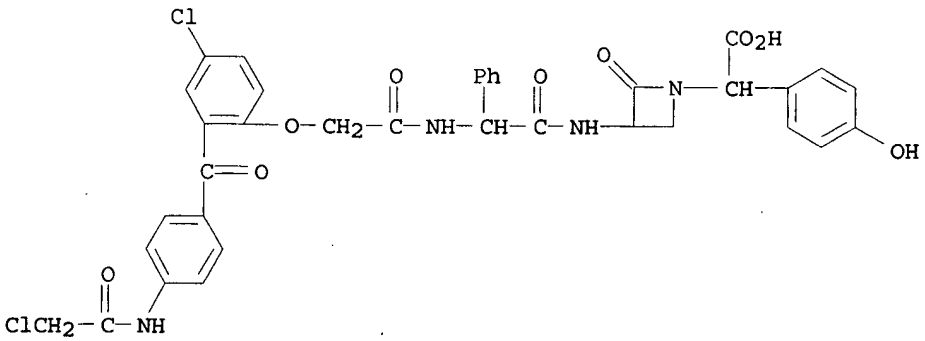


RN 64026-69-3 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-2-oxo-3-[[(1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinyl)carbonyl]amino]-, monosodium salt (9CI) (CA INDEX NAME)



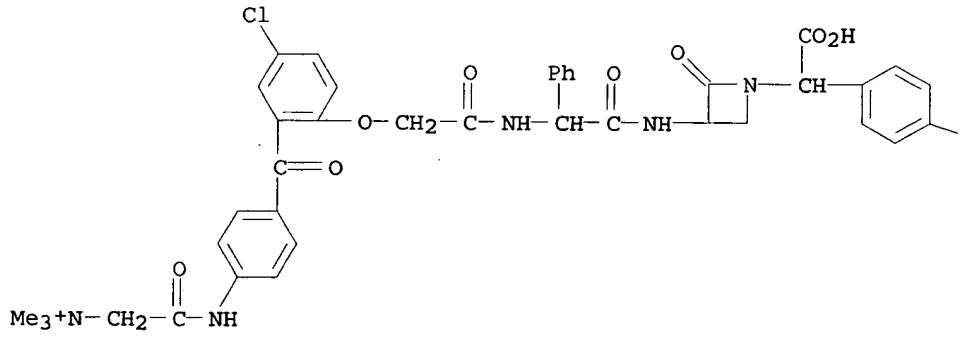
● Na

RN 75261-03-9 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[(chloroacetyl)amino]benzoyl]phenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



RN 75261-04-0 HCAPLUS
CN Ethanaminium, 2-[[4-[2-[2-[[2-[[1-[carboxy(4-hydroxyphenyl)methyl]-2-oxo-3-azetidinyl]amino]-2-oxo-1-phenylethyl]amino]-2-oxoethoxy]-5-chlorobenzoyl]phenyl]amino]-N,N,N-trimethyl-2-oxo-, chloride (9CI) (CA INDEX NAME)

PAGE 1-A

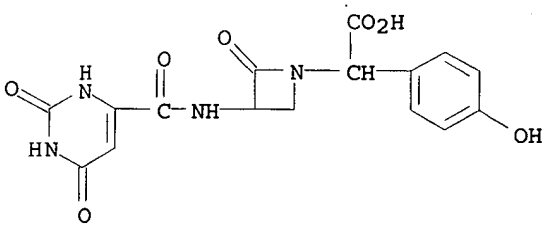


● Cl⁻

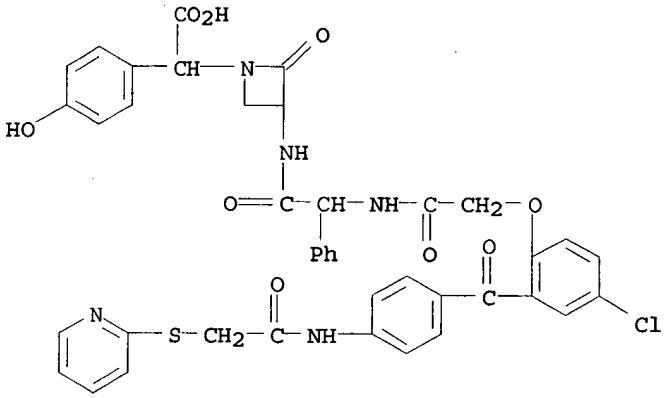
PAGE 1-B

OH

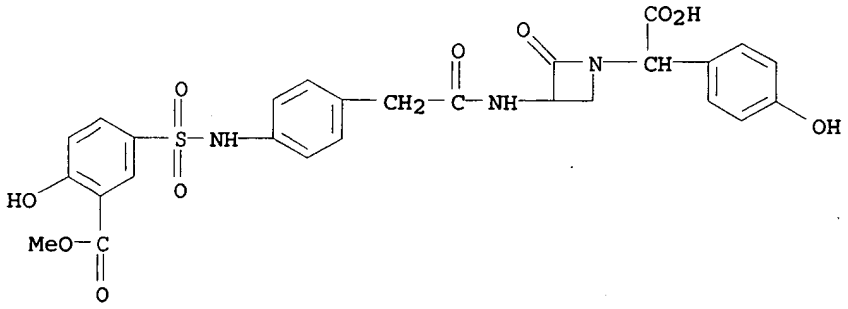
RN 75261-10-8 HCAPLUS
CN 1-Azetidineacetic acid, α-(4-hydroxyphenyl)-2-oxo-3-[[(1,2,3,6-tetrahydro-2,6-dioxo-4-pyrimidinyl)carbonyl]amino]- (9CI) (CA INDEX NAME)



RN 75269-85-1 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[[(2-pyridinylthio)acetyl]amino]benzoyl]phenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



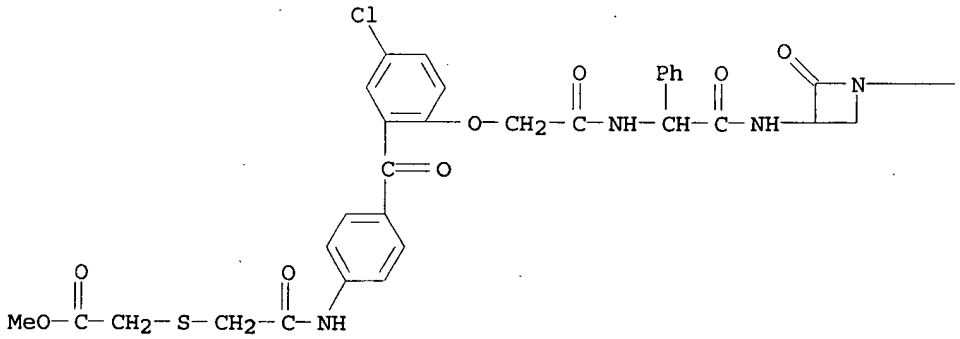
IT **75270-00-7 75270-03-0 75270-09-6**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(saponification of)
RN 75270-00-7 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[4-[[[4-hydroxy-3-(methoxycarbonyl)phenyl]sulfonyl]amino]phenyl]acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



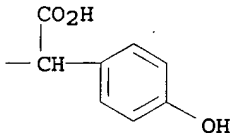
RN 75270-03-0 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[[[(2-methoxy-2-oxoethyl)thio]acetyl]amino]benzoyl]phenoxy]acetyl]amino]phenylacet

yl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)

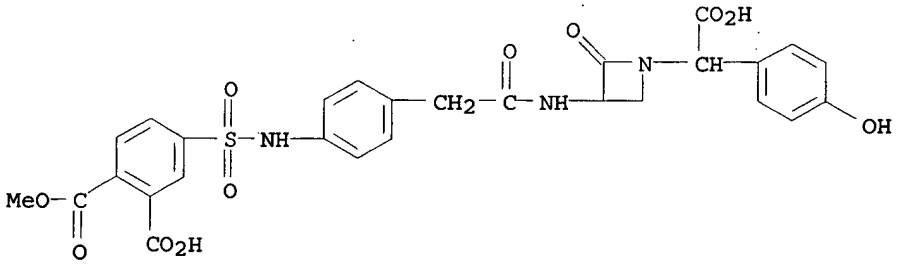
PAGE 1-A



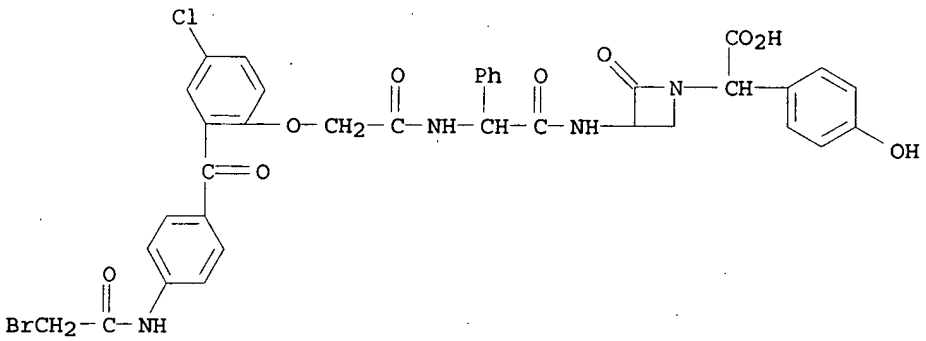
PAGE 1-B



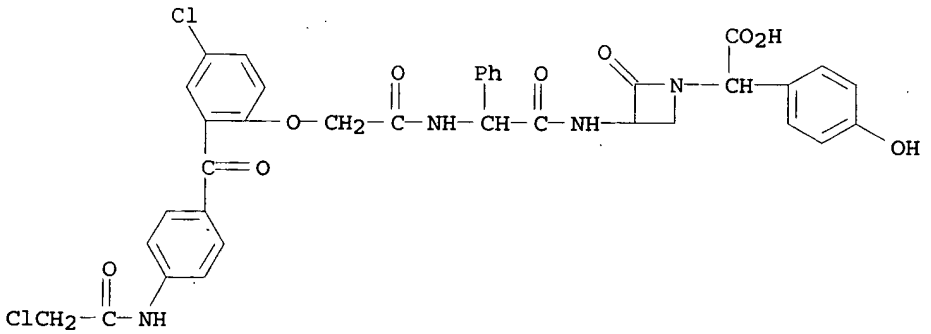
RN 75270-09-6 HCAPLUS
CN 1,2-Benzenedicarboxylic acid, 4-[[[4-[2-[[1-[carboxy(4-hydroxyphenyl)methyl]-2-oxo-3-azetidinyl]amino]-2-oxoethyl]phenyl]amino]sulfonyl]-, 1-methyl ester (9CI) (CA INDEX NAME)



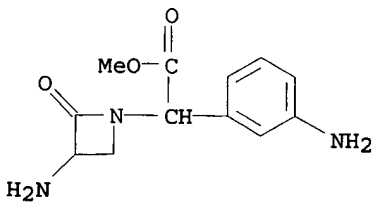
IT **59510-61-1**
RL: PROC (Process)
(substitution of, with thiols)
RN 59510-61-1 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[2-[4-[(bromoacetyl)amino]benzoyl]-4-chlorophenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



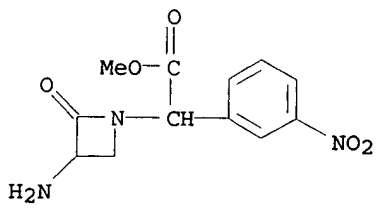
IT **75261-03-9**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(substitution reaction of, with pyridinethiol)
RN 75261-03-9 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[[[[4-chloro-2-[4-[(chloroacetyl)amino]benzoyl]phenoxy]acetyl]amino]phenylacetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



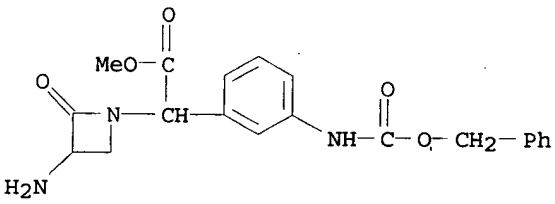
IT **75244-54-1 75244-56-3 75244-58-5**
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-acylation of)
RN 75244-54-1 HCAPLUS
CN 1-Azetidineacetic acid, 3-amino-α-(3-aminophenyl)-2-oxo-, methyl ester (9CI) (CA INDEX NAME)



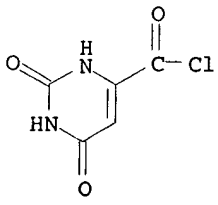
RN 75244-56-3 HCAPLUS
CN 1-Azetidineacetic acid, 3-amino-α-(3-nitrophenyl)-2-oxo-, methyl ester (9CI) (CA INDEX NAME)



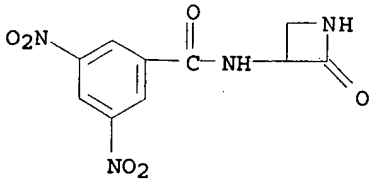
RN 75244-58-5 HCAPLUS
CN 1-Azetidineacetic acid, 3-amino-2-oxo-α-[3-[[(phenylmethoxy)carbonyl]amino]phenyl]-, methyl ester (9CI) (CA INDEX NAME)



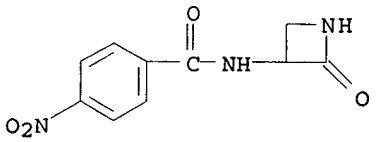
IT **3346-64-3**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(N-acylation of aminolactacillanic acid by)
RN 3346-64-3 HCAPLUS
CN 4-Pyrimidinecarbonyl chloride, 1,2,3,6-tetrahydro-2,6-dioxo- (9CI) (CA INDEX NAME)



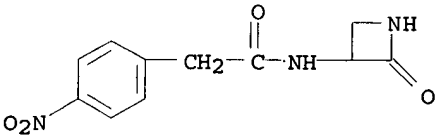
IT **75263-49-9 75263-50-2 75263-70-6**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(N-alkylation of)
RN 75263-49-9 HCAPLUS
CN Benzamide, 3,5-dinitro-N-(2-oxo-3-azetidinyl)- (9CI) (CA INDEX NAME)



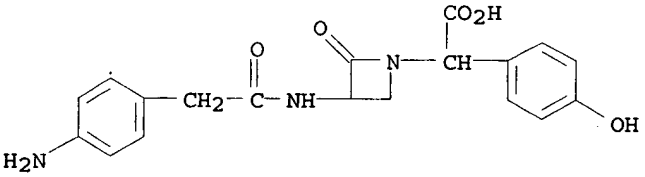
RN 75263-50-2 HCAPLUS
CN Benzamide, 4-nitro-N-(2-oxo-3-azetidinyl)- (9CI) (CA INDEX NAME)



RN 75263-70-6 HCAPLUS
CN Benzeneacetamide, 4-nitro-N-(2-oxo-3-azetidinyl)- (9CI) (CA INDEX NAME)



IT **75270-37-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-sulfonylation of, by benzenesulfonyl chloride derivative)
RN 75270-37-0 HCAPLUS
CN 1-Azetidineacetic acid, 3-[[(4-aminophenyl)acetyl]amino]-α-(4-hydroxyphenyl)-2-oxo- (9CI) (CA INDEX NAME)



IC C07D205-08; C07D401-12; C07D403-12; C07D409-12
INCL 260239000A
CC 27-5 (Heterocyclic Compounds (One Hetero Atom))
IT 59508-89-3
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** of, with aminooxyacetic acid)
IT 79-19-6 563-41-7 593-56-6 622-33-3 75261-36-8
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** reaction of, with (phenylglyoxyloylamino)lactacillanic acid derivative)
IT 123-46-6
RL: RCT (Reactant); RACT (Reactant or reagent)
(**condensation** reaction of, with [(formylphenoxy)acetamido]lactacillanic acid derivative)
IT 59510-69-9 59510-71-3 **59510-73-5** 59510-75-7
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(deacylation of)
IT 59509-98-7 59510-42-8 59510-65-5 59510-94-0 59511-72-7
59511-73-8 59512-00-4 64027-04-9 64027-07-2 64027-12-9
64027-14-1 64027-32-3 75269-87-3 **75269-88-4**

75269-89-5 **75269-90-8** **75269-91-9** 75269-92-0
75269-93-1 75269-94-2
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(deprotection of)

IT 19789-85-6P 30017-02-8P 59508-81-5P 59508-82-6P
59508-84-8P 59508-85-9P 59508-86-0P 59508-87-1P
59508-88-2P 59508-89-3P 59508-90-6P 59508-91-7P
59508-94-0P 59508-96-2P 59508-97-3P 59508-98-4P
59508-99-5P 59509-00-1P 59509-01-2P 59509-02-3P
59509-03-4P 59509-04-5P 59509-05-6P 59509-06-7P
59509-07-8P 59509-08-9P 59509-09-0P 59509-10-3P
59509-11-4P 59509-12-5P 59509-13-6P 59509-14-7P
59509-15-8P 59509-16-9P 59509-17-0P 59509-19-2P
59509-20-5P 59509-21-6P 59509-22-7P **59509-23-8P**
59509-24-9P **59509-25-0P** 59509-26-1P
59509-27-2P 59509-28-3P **59509-30-7P** 59509-31-8P
59509-32-9P 59509-33-0P 59509-35-2P 59509-36-3P
59509-37-4P **59509-38-5P** **59509-39-6P**
59509-40-9P 59509-41-0P 59509-42-1P 59509-43-2P
59509-44-3P 59509-45-4P 59509-46-5P 59509-47-6P
59509-49-8P 59509-50-1P 59509-51-2P 59509-52-3P
59509-53-4P 59509-54-5P 59509-55-6P **59509-56-7P**
59509-57-8P 59509-58-9P 59509-59-0P 59509-60-3P
59509-61-4P 59509-62-5P 59509-63-6P 59509-64-7P
59509-65-8P 59509-66-9P 59509-67-0P 59509-68-1P
59509-69-2P 59509-70-5P 59509-72-7P 59509-73-8P
59509-74-9P 59509-75-0P 59509-76-1P 59509-77-2P
59509-78-3P 59509-79-4P 59509-80-7P 59509-81-8P
59509-82-9P 59509-83-0P 59509-84-1P 59509-85-2P
59509-86-3P 59509-87-4P 59509-89-6P 59509-90-9P
59509-91-0P 59509-92-1P 59509-93-2P 59509-94-3P
59509-96-5P 59509-97-6P 59509-98-7P **59509-99-8P**
59510-00-8P 59510-01-9P 59510-02-0P 59510-03-1P
59510-05-3P 59510-06-4P 59510-07-5P 59510-08-6P
59510-10-0P 59510-11-1P 59510-12-2P 59510-13-3P
59510-14-4P 59510-15-5P 59510-16-6P 59510-17-7P
59510-19-9P 59510-20-2P 59510-21-3P 59510-22-4P
59510-24-6P 59510-25-7P 59510-26-8P 59510-27-9P
59510-28-0P 59510-29-1P 59510-30-4P 59510-31-5P
59510-32-6P 59510-33-7P 59510-36-0P 59510-37-1P
59510-39-3P 59510-40-6P 59510-41-7P 59510-42-8P
59510-43-9P 59510-44-0P 59510-45-1P 59510-46-2P
59510-47-3P 59510-48-4P 59510-49-5P 59510-50-8P
59510-51-9P 59510-52-0P 59510-53-1P 59510-54-2P
59510-55-3P **59510-56-4P** 59510-57-5P 59510-58-6P
59510-60-0P **59510-61-1P** 59510-62-2P 59510-63-3P
59510-64-4P 59510-65-5P 59510-66-6P 59510-68-8P
59510-71-3P 59510-72-4P **59510-73-5P**
59510-74-6P 59510-75-7P 59510-84-8P 59510-90-6P
59510-91-7P 59510-96-2P 59511-07-8P 59511-09-0P
59511-10-3P 59511-11-4P 59511-13-6P 59511-14-7P
59511-15-8P 59511-16-9P 59511-18-1P 59511-19-2P
59511-20-5P 59511-21-6P 59511-22-7P 59511-24-9P
59511-25-0P 59511-26-1P 59511-27-2P 59511-28-3P
59511-29-4P 59511-30-7P 59511-31-8P **59511-32-9P**
59511-33-0P **59511-34-1P** 59511-35-2P
59511-36-3P 59511-37-4P 59511-38-5P 59511-39-6P
59511-40-9P 59511-41-0P 59511-42-1P 59511-45-4P
59511-46-5P 59511-47-6P 59511-48-7P 59511-49-8P
59511-50-1P 59511-51-2P 59511-52-3P 59511-53-4P
59511-54-5P 59511-55-6P 59511-56-7P 59511-57-8P
59511-58-9P 59511-59-0P 59511-60-3P 59511-61-4P

59511-62-5P 59511-63-6P 59511-64-7P 59511-66-9P
59511-67-0P 59511-68-1P 59511-70-5P 59511-72-7P
59511-74-9P 59511-75-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 59511-76-1P 59511-77-2P 59511-78-3P **59511-79-4P**
59511-81-8P 59511-82-9P **59511-83-0P** 59511-84-1P
59511-86-3P 59511-87-4P 59511-89-6P 59511-90-9P
59511-91-0P 59511-92-1P 59511-93-2P 59511-96-5P
59511-97-6P 59511-99-8P 59512-01-5P 59512-02-6P
59512-03-7P 59547-68-1P 59547-69-2P 59547-70-5P
62105-86-6P 62634-84-8P 64026-60-4P 64026-63-7P
64026-64-8P 64026-68-2P **64026-69-3P** 64026-75-1P
64026-77-3P 64026-78-4P 64026-79-5P 64026-80-8P
64026-81-9P 64026-82-0P 64026-84-2P 64026-85-3P
64026-86-4P 64026-88-6P 64026-89-7P 64026-90-0P
64026-91-1P 64026-94-4P 64026-95-5P 64026-96-6P
64026-97-7P 64026-98-8P 64026-99-9P 64027-00-5P
64027-01-6P 64027-02-7P 64027-03-8P 64027-05-0P
64027-11-8P 64027-13-0P 64027-15-2P 64027-16-3P
64027-17-4P 64027-18-5P 64027-20-9P 64027-34-5P
64027-36-7P 64027-37-8P 64027-38-9P 64027-41-4P
64027-48-1P 64027-51-6P 64027-54-9P 64027-55-0P
64027-56-1P 64027-58-3P 64027-59-4P 64027-61-8P
64027-65-2P 64027-66-3P 64027-67-4P 64027-68-5P
64027-69-6P 64027-71-0P 64027-72-1P 64027-74-3P
64027-75-4P 64044-42-4P 64044-43-5P 64044-45-7P
64055-02-3P 64071-81-4P 64078-77-9P 64317-22-2P
68749-65-5P 75244-57-4P 75244-67-6P 75244-68-7P
75244-69-8P 75244-70-1P 75244-71-2P 75244-75-6P
75244-76-7P 75244-77-8P 75244-78-9P 75244-79-0P
75244-80-3P **75261-03-9P** **75261-04-0P**
75261-05-1P **75261-10-8P** 75261-12-0P 75261-18-6P
75261-19-7P 75261-20-0P 75261-21-1P 75261-22-2P
75261-34-6P 75261-35-7P 75261-38-0P 75261-39-1P
75261-40-4P 75261-41-5P 75269-82-8P 75269-83-9P
75269-85-1P 75270-12-1P 75270-36-9P 75270-43-8P
75270-44-9P 75270-45-0P 75270-46-1P 75270-47-2P
75270-48-3P 75270-49-4P 75270-50-7P 75270-56-3P
75270-57-4P 75283-26-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 59511-81-8 59511-87-4 64027-13-0 64027-40-3 64078-77-9
75261-32-4 75269-95-3 75269-96-4 75269-97-5 75269-98-6
75269-99-7 **75270-00-7** 75270-01-8 75270-02-9
75270-03-0 75270-04-1 75270-05-2 75270-06-3
75270-07-4 75270-08-5 **75270-09-6** 75270-10-9
75270-11-0
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(saponification of)

IT 59510-10-0 **59510-61-1**
RL: PROC (Process)
(substitution of, with thiols)

IT **75261-03-9**
RL: RCT (Reactant); **RACT (Reactant or reagent)**
(substitution reaction of, with pyridinethiol)

IT 30017-02-8 59510-68-8 59511-00-1 62634-84-8 64027-20-9
64027-41-4 64027-42-5 75244-52-9 75244-53-0
75244-54-1 75244-55-2 **75244-56-3**
75244-58-5 75244-59-6 75244-60-9 75244-61-0
75244-62-1 75244-63-2 75244-64-3 75244-65-4 75244-72-3
75244-73-4 75244-74-5